

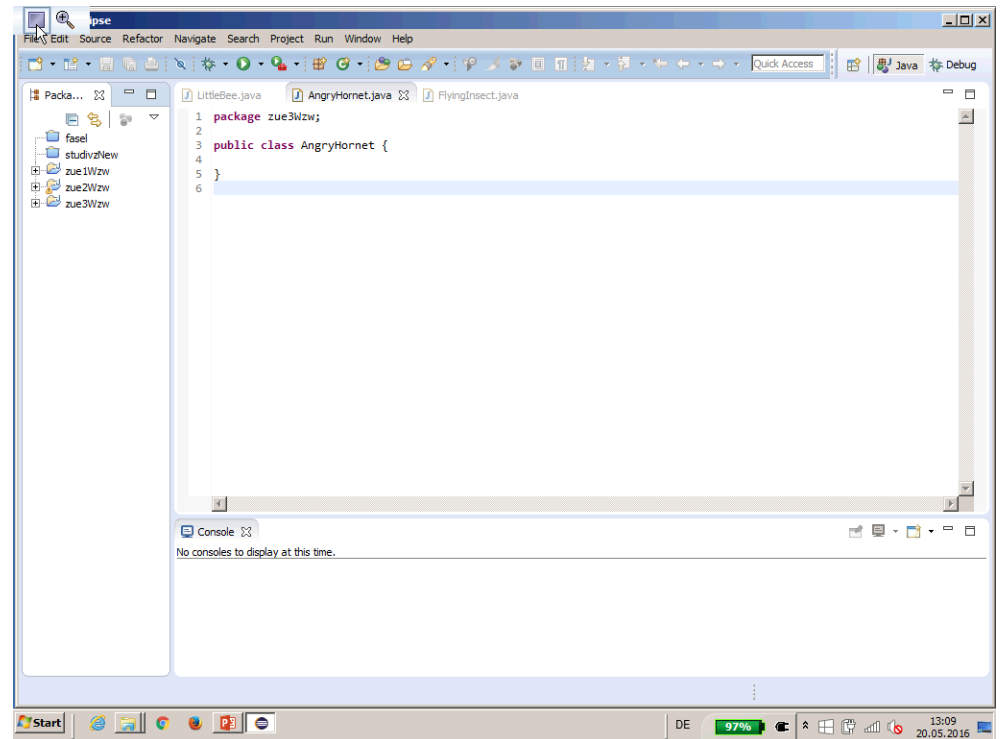
Script generated by TTT

Title: groh: profile1 (20.05.2016)

Date: Fri May 20 13:09:18 CEST 2016

Duration: 85:28 min

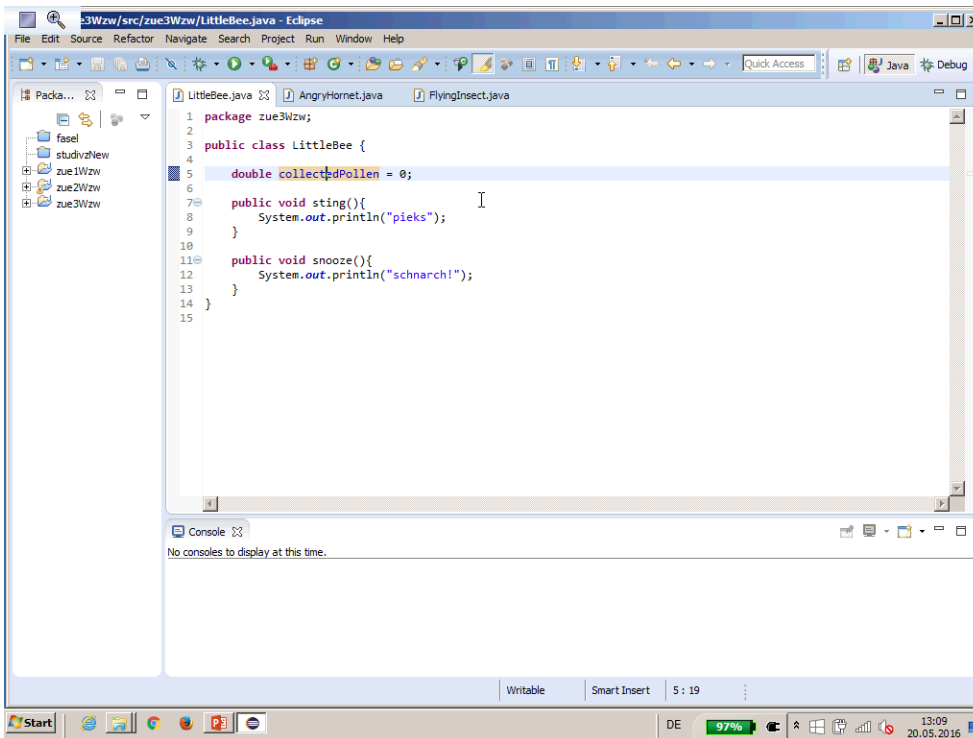
Pages: 76



This screenshot shows the Eclipse IDE interface. The Package Explorer on the left shows a project named 'zue3Wzw' with sub-packages 'fasel', 'studivzlew', 'zue1Wzw', 'zue2Wzw', and 'zue3Wzw'. The main editor window displays the source code for 'AngryHornet.java' in the 'zue3Wzw' package. The code is as follows:

```
1 package zue3Wzw;
2
3 public class AngryHornet {
4
5 }
6
```

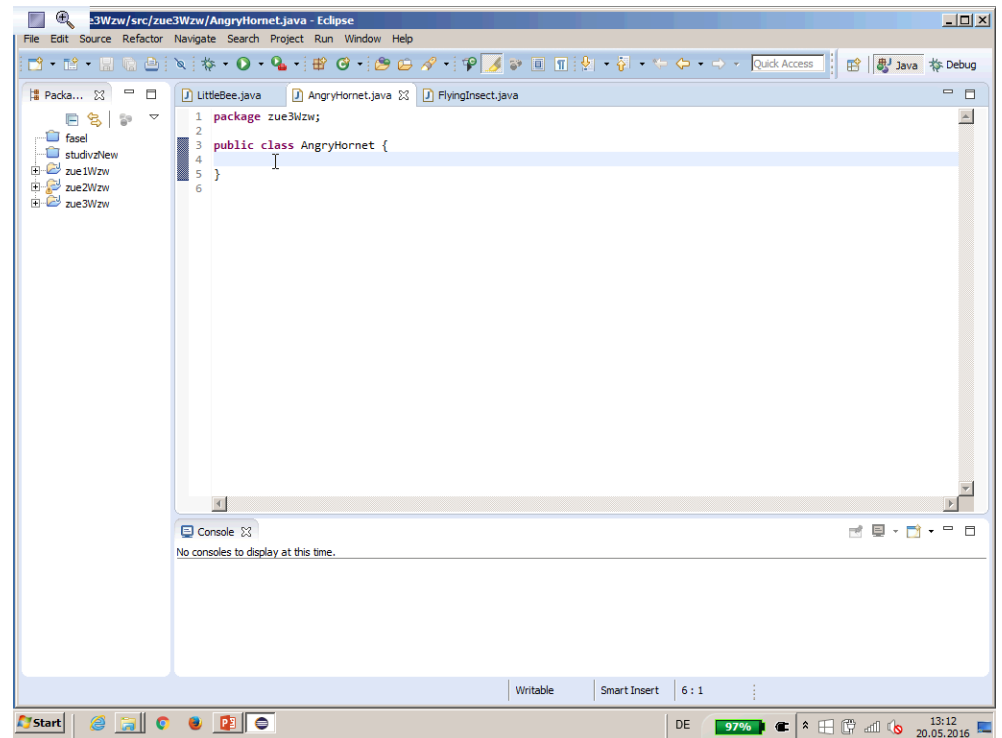
The Console window at the bottom shows the message: "No consoles to display at this time." The system tray at the bottom right indicates the date and time as 13:09 on 20.05.2016.



This screenshot shows the Eclipse IDE interface with the 'LittleBee.java' file open in the editor. The Package Explorer on the left shows the same project structure as the previous screenshot. The source code for 'LittleBee.java' is displayed as follows:

```
1 package zue3Wzw;
2
3 public class LittleBee {
4
5     double collectdPollen = 0;
6
7     public void sting(){
8         System.out.println("pieks");
9     }
10
11     public void snooze(){
12         System.out.println("schnarch!");
13     }
14 }
15
```

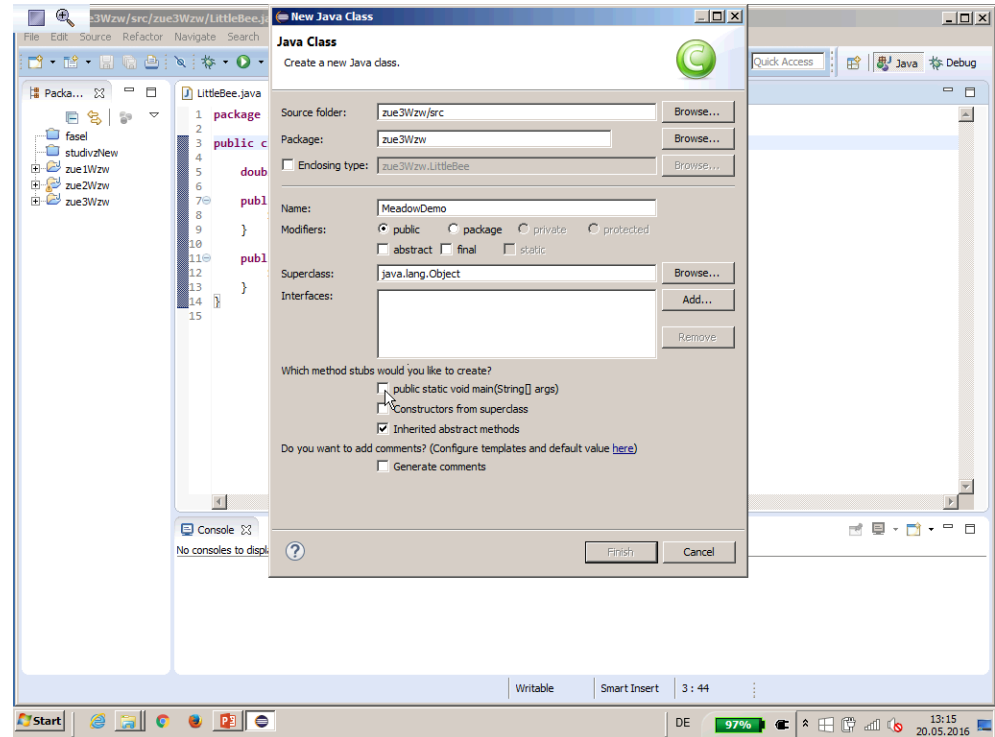
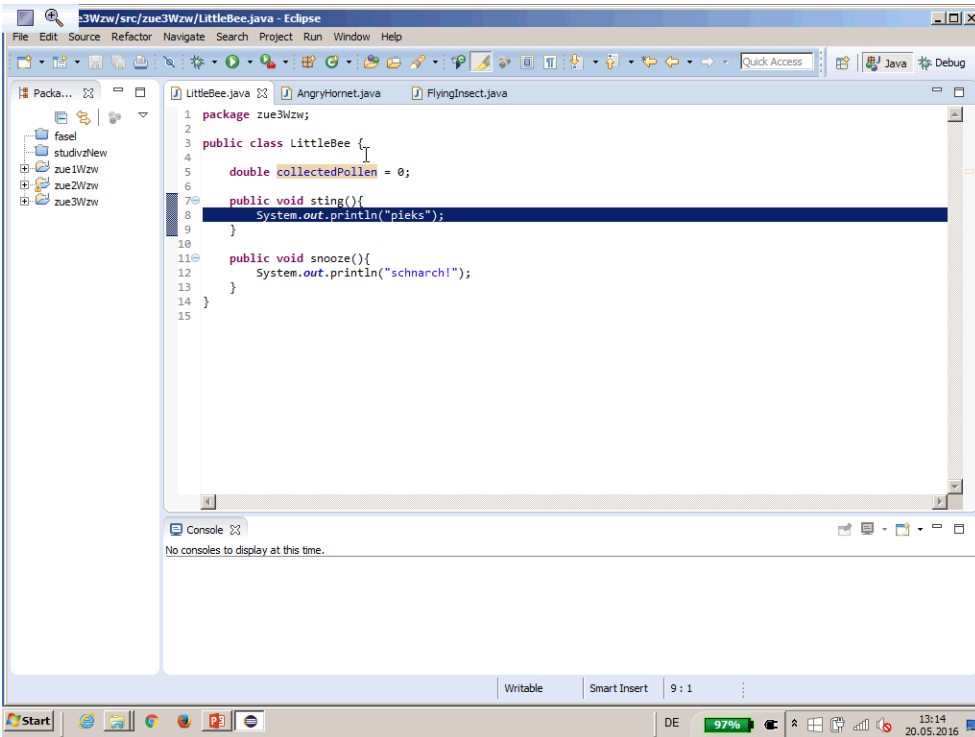
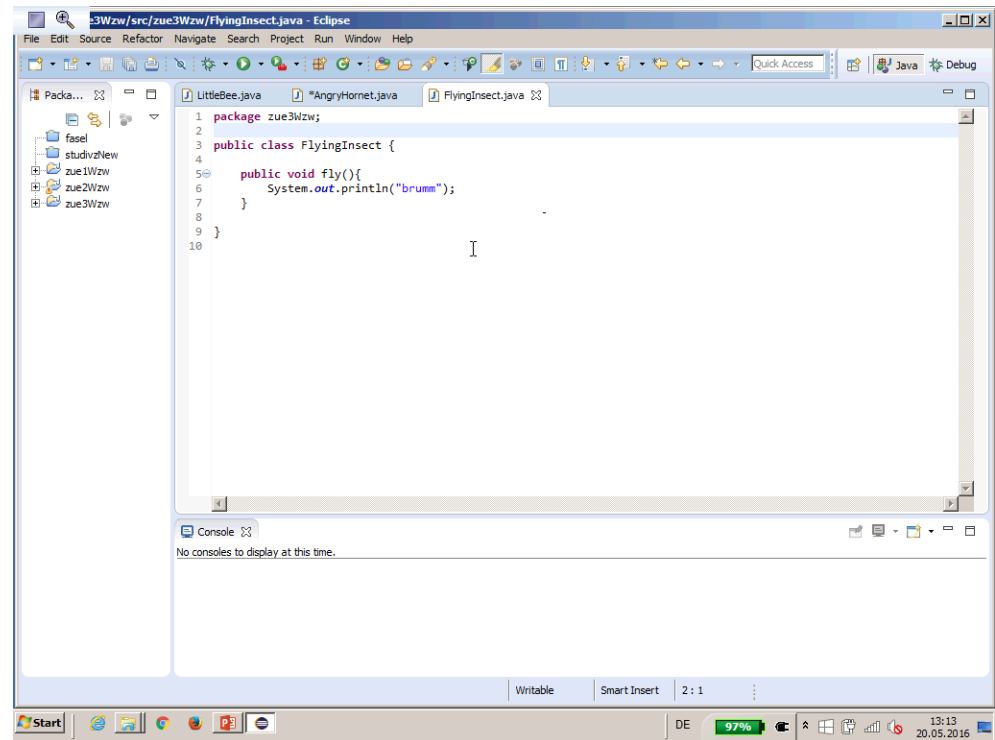
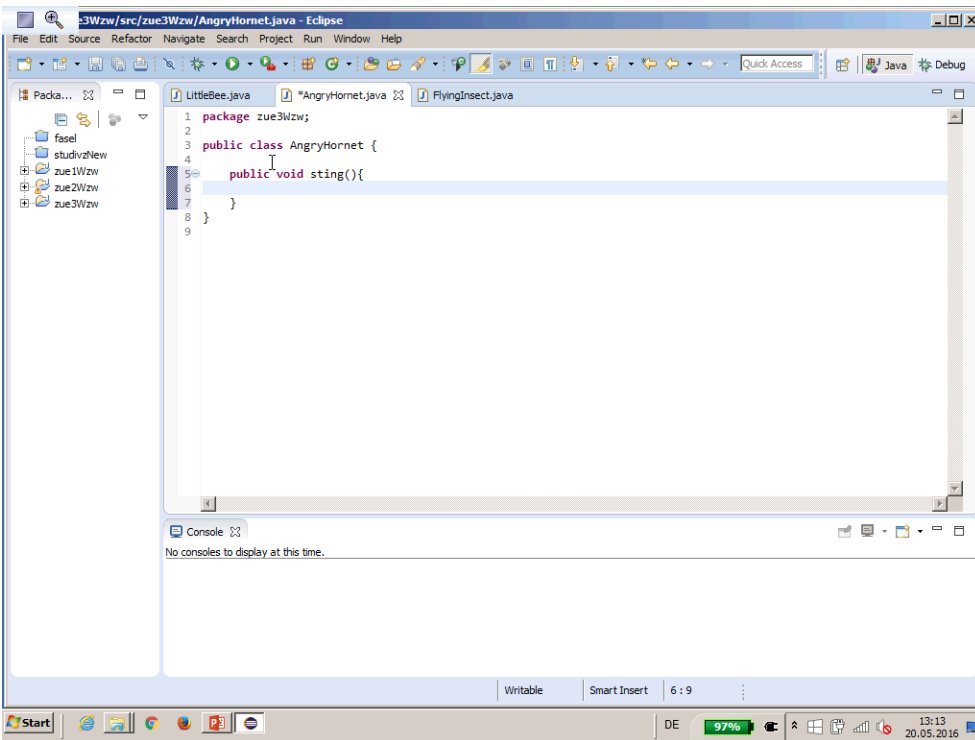
The Console window at the bottom shows the message: "No consoles to display at this time." The status bar at the bottom indicates the file is 'Writable' and 'Smart Insert' is active, with a cursor at line 5, column 19. The system tray at the bottom right shows the date and time as 13:09 on 20.05.2016.

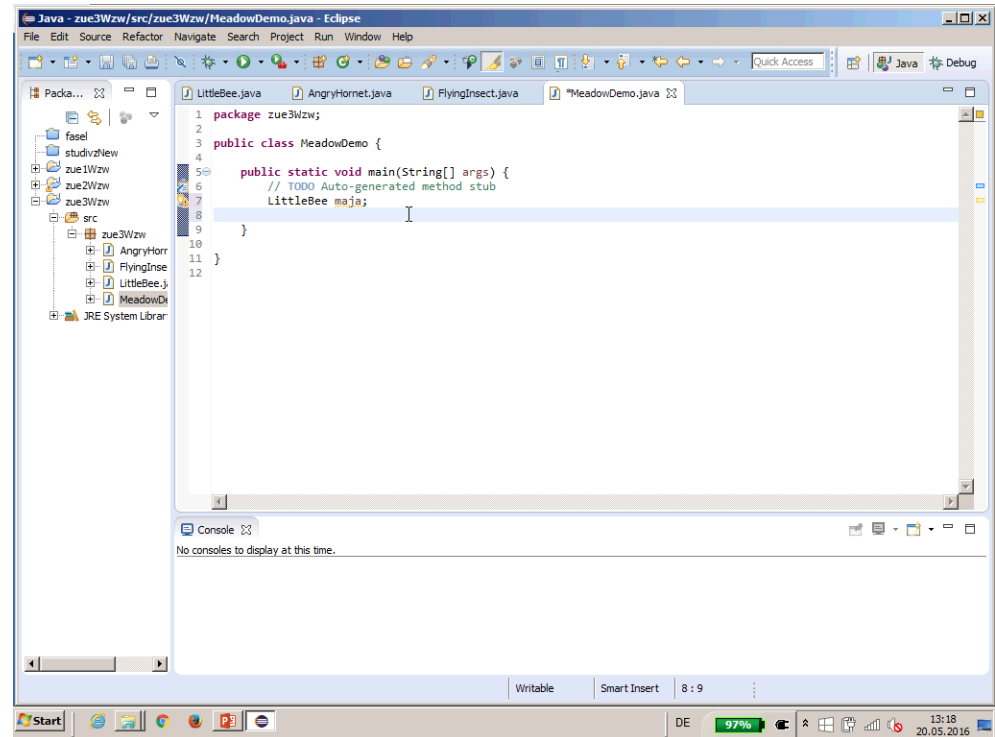
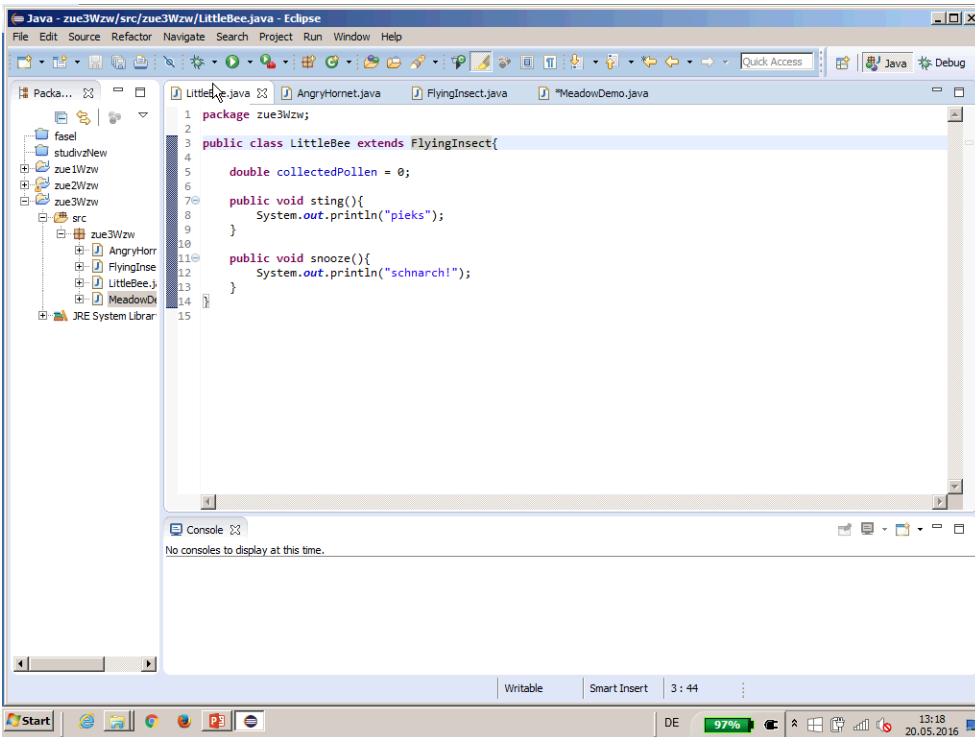
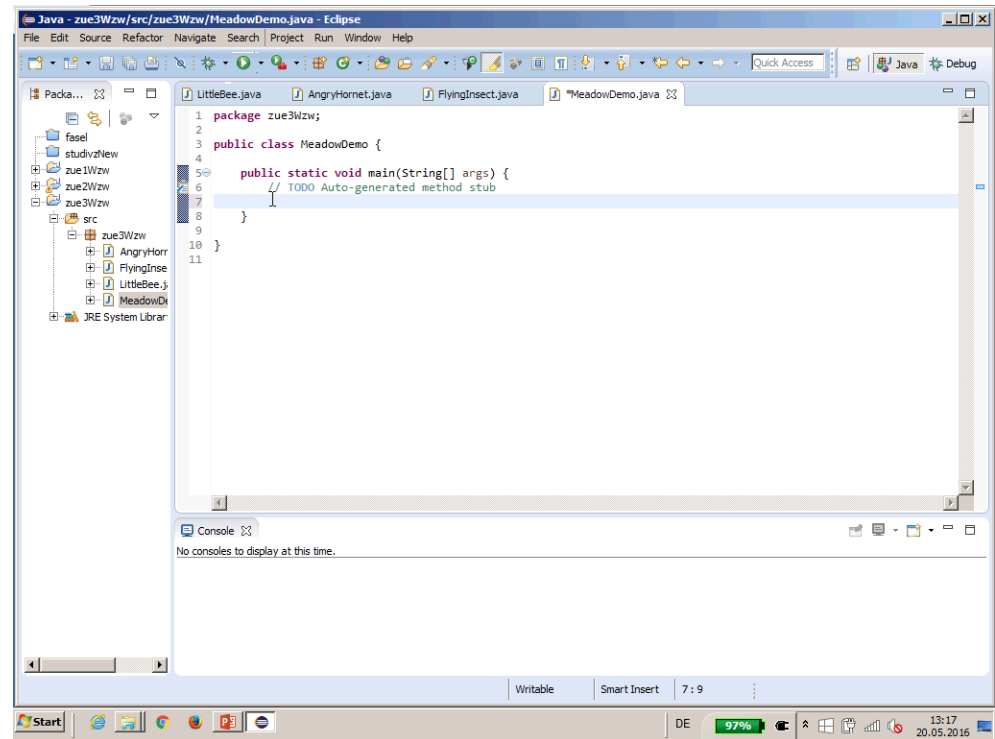
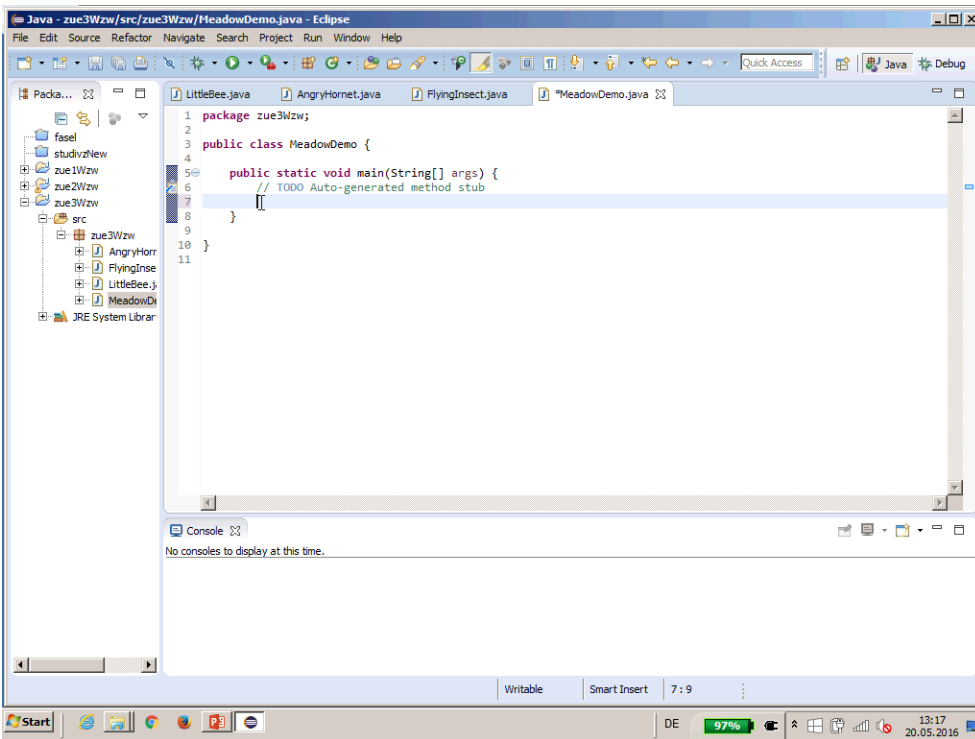


This screenshot shows the Eclipse IDE interface with the 'AngryHornet.java' file open in the editor. The Package Explorer on the left shows the same project structure. The source code for 'AngryHornet.java' is displayed as follows:

```
1 package zue3Wzw;
2
3 public class AngryHornet {
4
5 }
6
```

The Console window at the bottom shows the message: "No consoles to display at this time." The status bar at the bottom indicates the file is 'Writable' and 'Smart Insert' is active, with a cursor at line 6, column 1. The system tray at the bottom right shows the date and time as 13:12 on 20.05.2016.





```
1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi;
10        willi = new LittleBee();
11    }
12
13 }
14
15
```

Console: No consoles to display at this time.

10 : 12

```
1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10    }
11
12 }
13
14
```

Console: No consoles to display at this time.

9 : 43

```
1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snooze();
12    }
13
14 }
15
```

Console: No consoles to display at this time.

11 : 24

```
1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snooze();
12    }
13
14 }
15
```

Console: No consoles to display at this time.

11 : 24

Debug - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49298
 - Thread [main] (Suspended (breakpoint at line 9 in MeadowDemo))
 - MeadowDemo.main(String[]) line: 9

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Variables

Name	Value
args	String[] (d=16)
maja	LittleBee (d=18)

Breakpoints

LittleBee.java AngryHornet.java FlyingInsect.java MeadowDemo.java

```

1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snoodle();
12    }
13

```

Outline

- zue3Wzw
 - MeadowDemo
 - main(String[]): void

Console

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Start DE 97% 13:22 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49298
 - Thread [main] (Suspended (breakpoint at line 9 in MeadowDemo))
 - MeadowDemo.main(String[]) line: 9

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Variables

Name	Value
args	String[] (d=16)
maja	LittleBee (d=18)

Breakpoints

LittleBee.java AngryHornet.java FlyingInsect.java MeadowDemo.java

```

1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snoodle();
12    }
13

```

Outline

- zue3Wzw
 - MeadowDemo
 - main(String[]): void

Console

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Start DE 97% 13:23 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49298
 - Thread [main] (Suspended)
 - MeadowDemo.main(String[]) line: 10

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Variables

Name	Value
args	String[] (d=16)
maja	LittleBee (d=18)
collectedPollen	0.0
willi	LittleBee (d=24)
collectedPollen	0.0

Breakpoints

LittleBee.java AngryHornet.java FlyingInsect.java MeadowDemo.java

```

1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snoodle();
12    }
13

```

Outline

- zue3Wzw
 - MeadowDemo
 - main(String[]): void

Console

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Start DE 97% 13:24 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/FlyingInsect.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49298
 - Thread [main] (Suspended)
 - MeadowDemo.main(String[]) line: 11

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

Variables

Name	Value
args	String[] (d=16)
maja	LittleBee (d=18)
willi	LittleBee (d=24)

Breakpoints

LittleBee.java AngryHornet.java FlyingInsect.java MeadowDemo.java

```

1 package zue3Wzw;
2
3 public class MeadowDemo {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         LittleBee maja;
8         maja = new LittleBee();
9         LittleBee willi = new LittleBee();
10        maja.fly();
11        willi.snoodle();
12    }
13

```

Outline

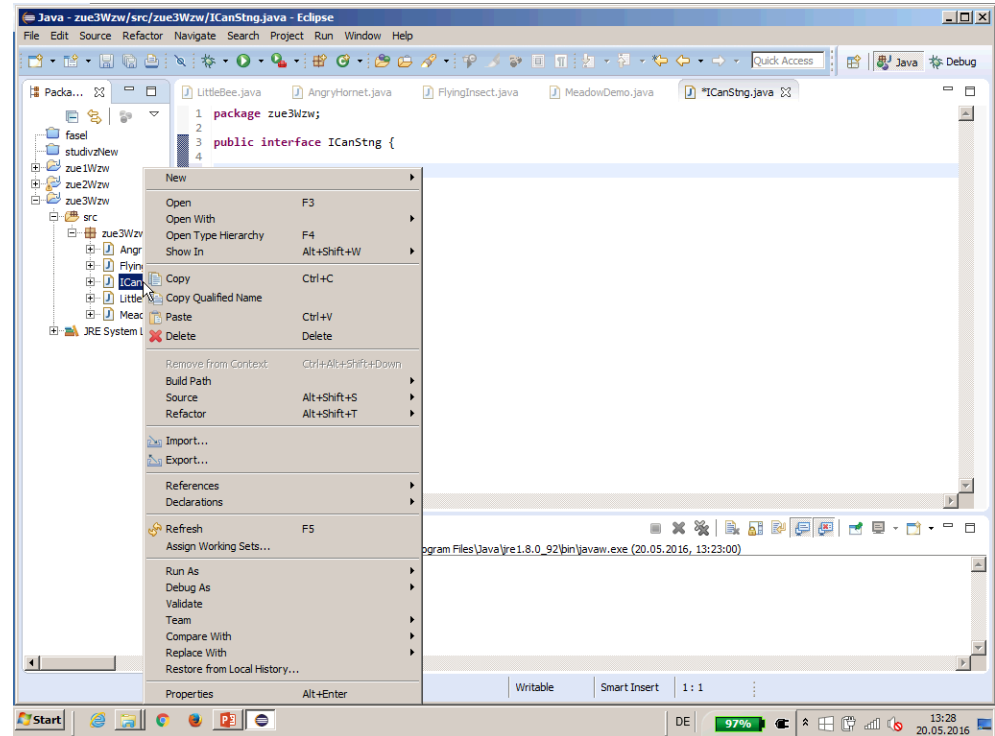
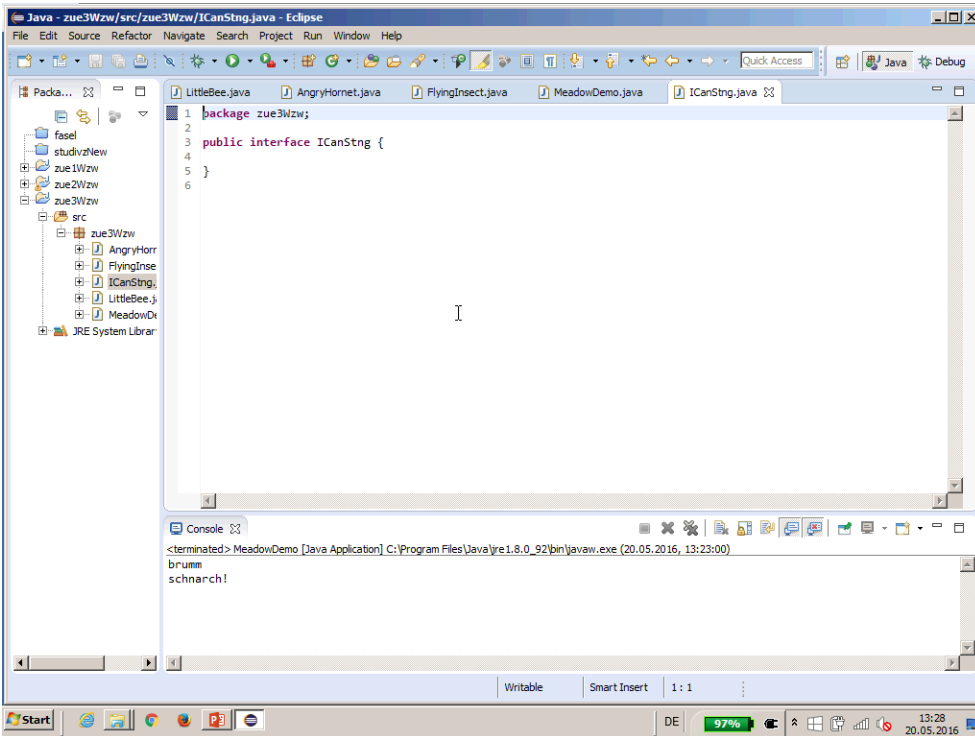
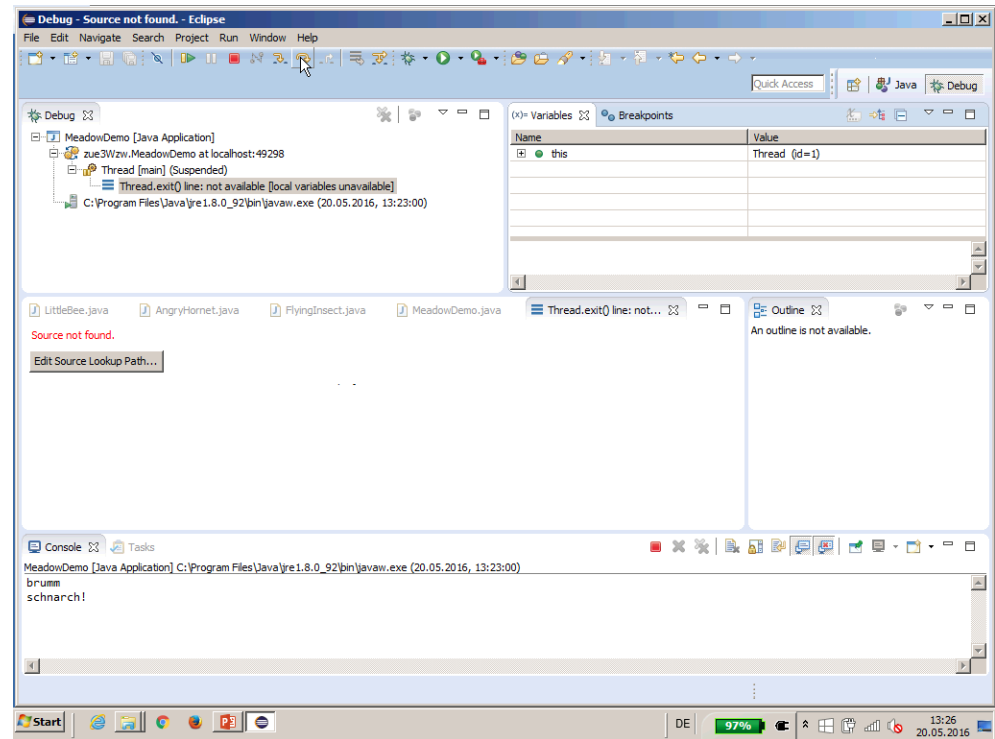
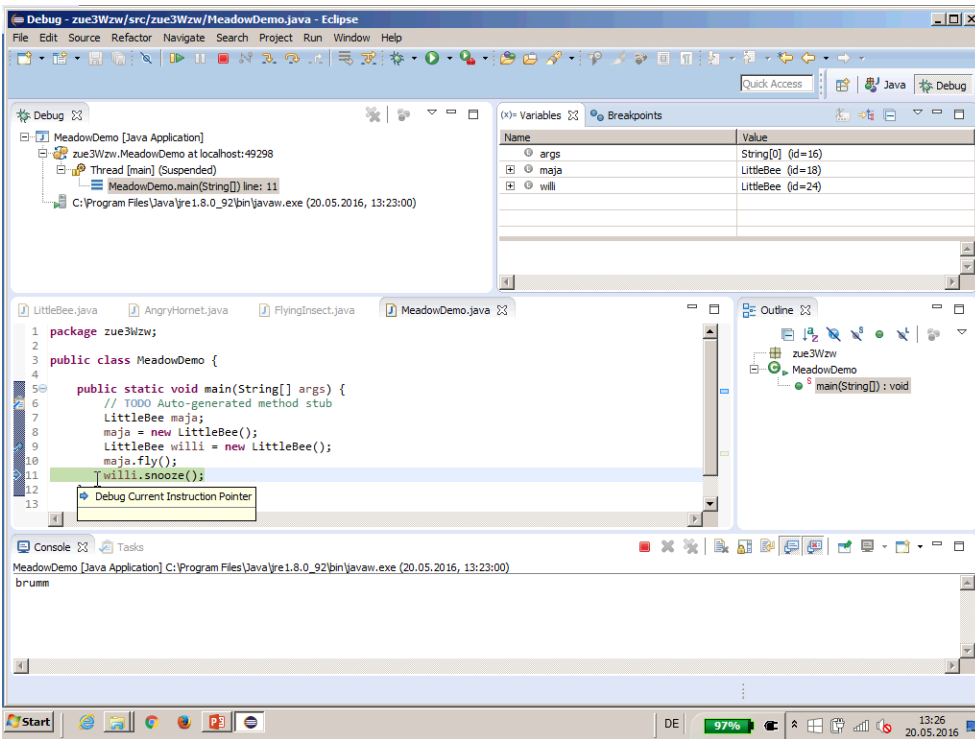
- zue3Wzw
 - MeadowDemo
 - main(String[]): void

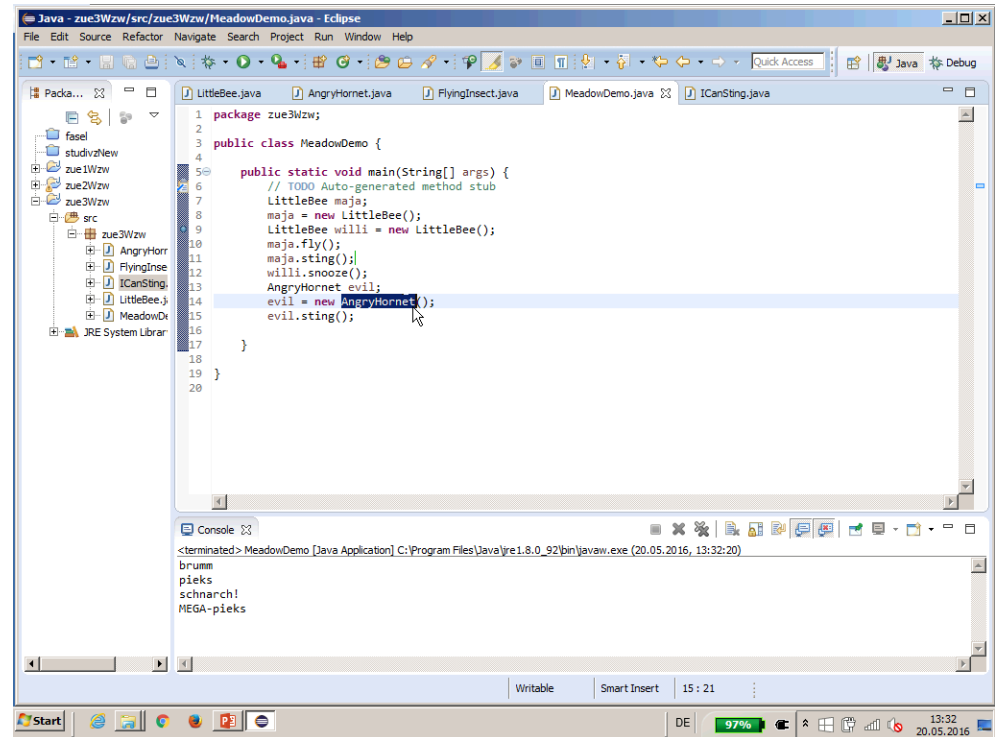
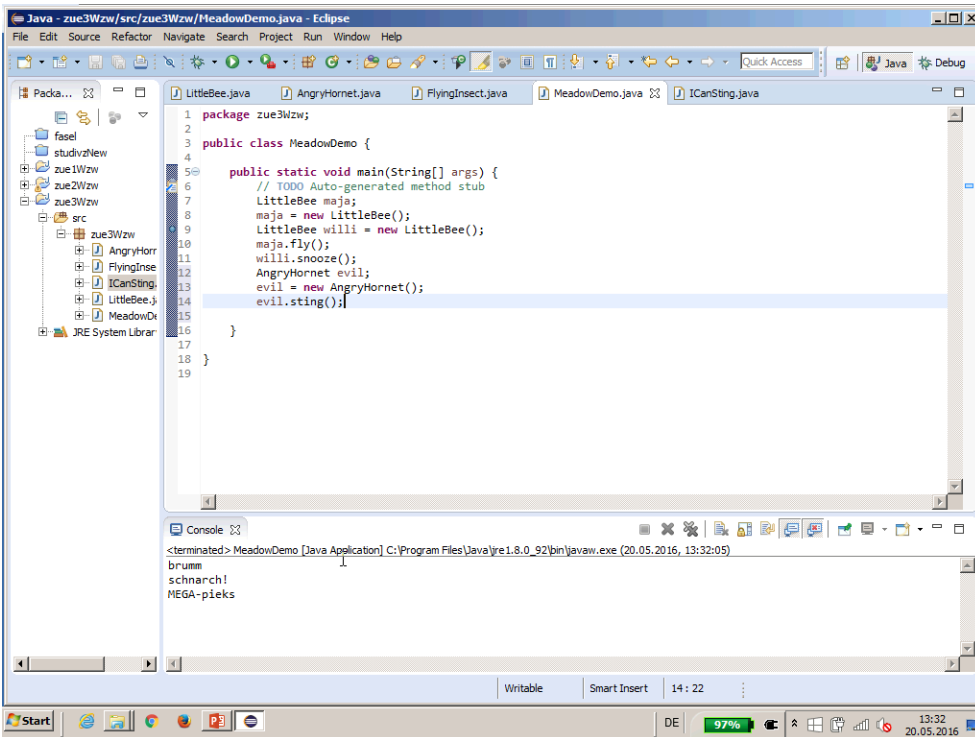
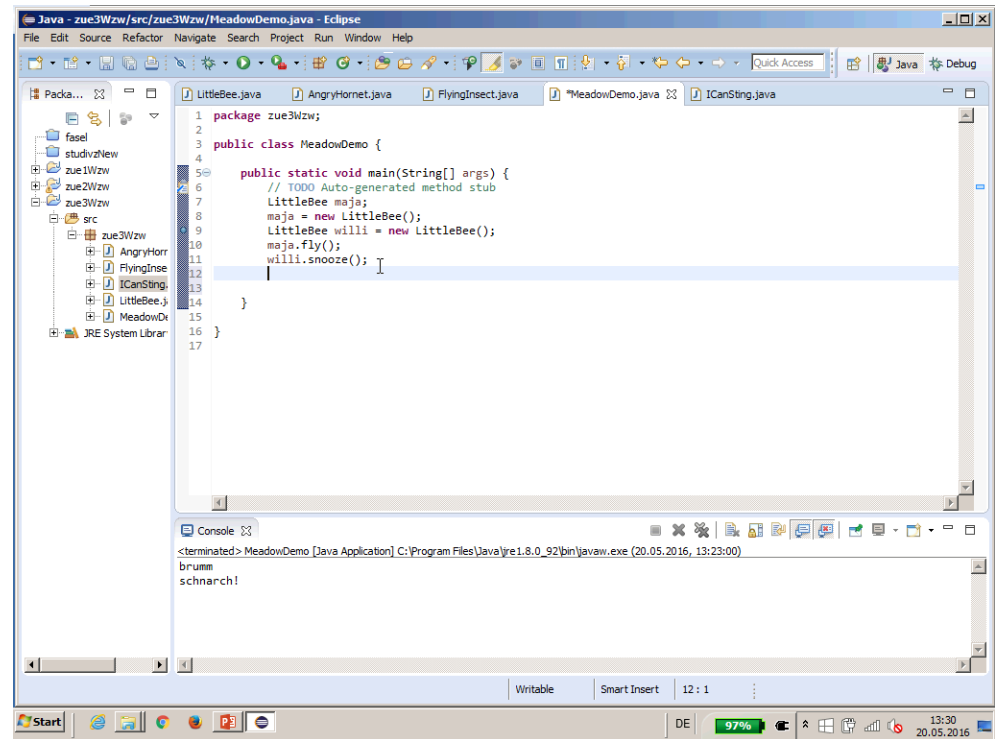
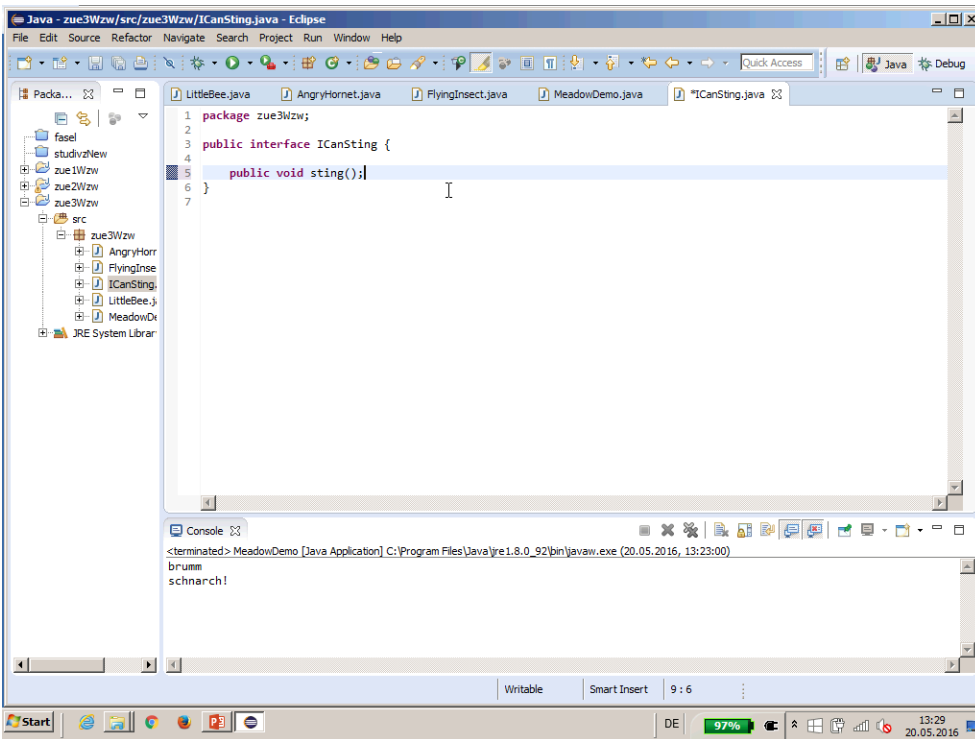
Console

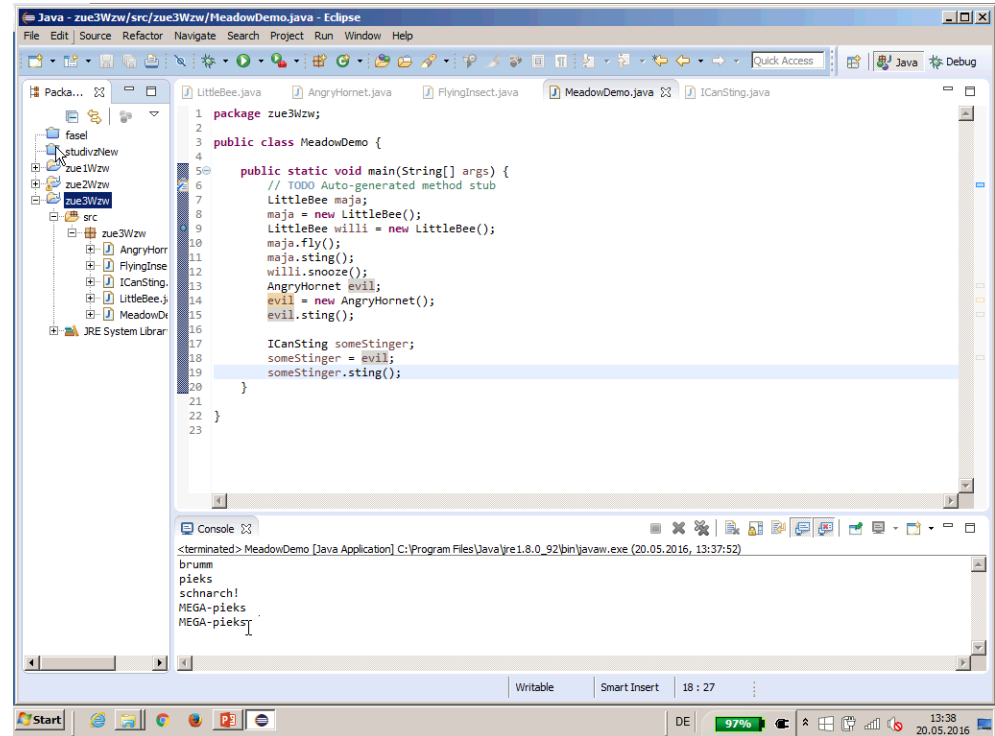
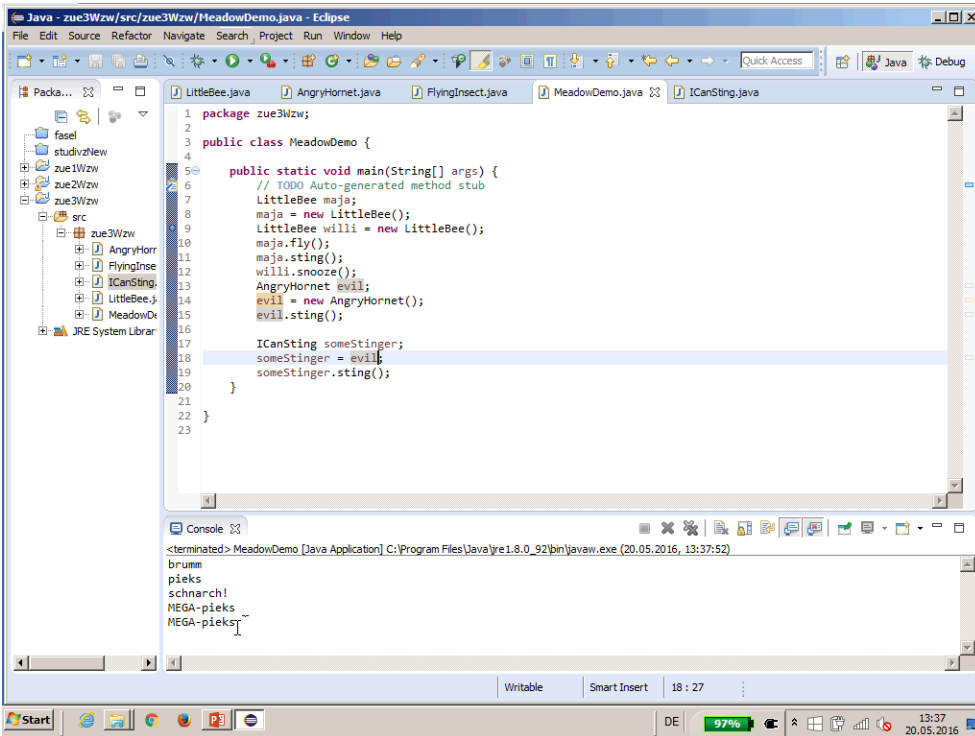
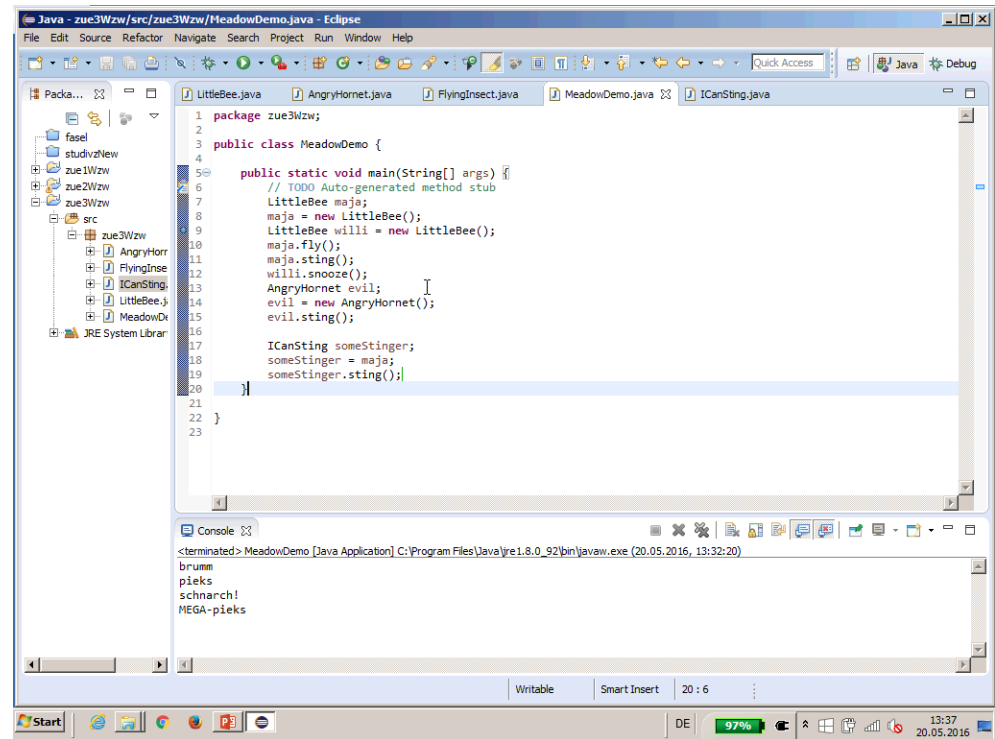
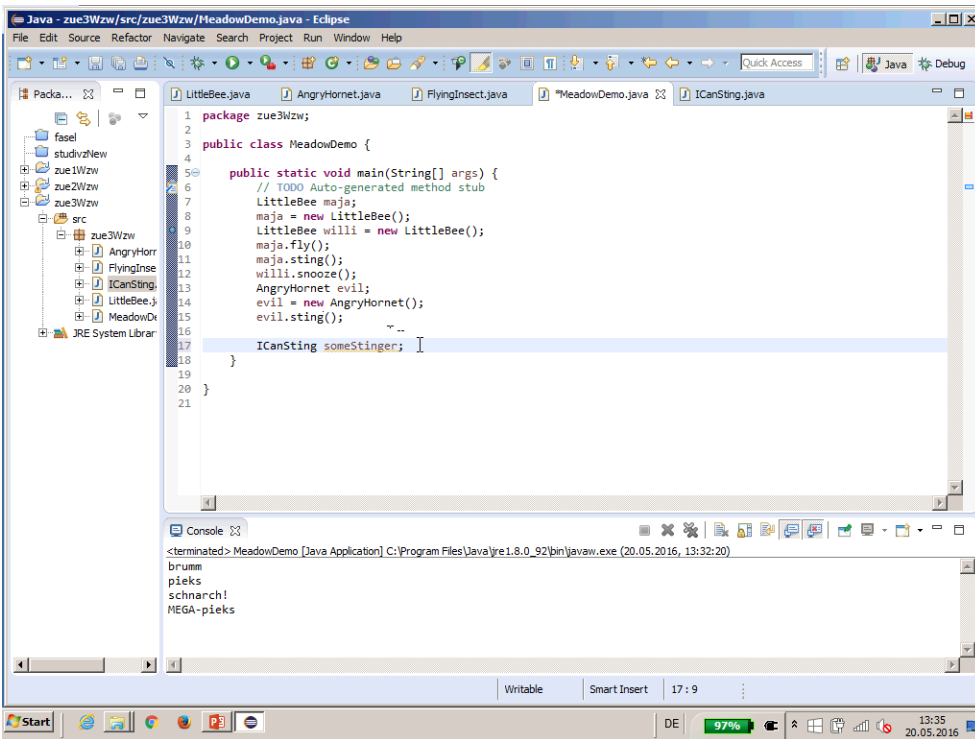
MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:23:00)

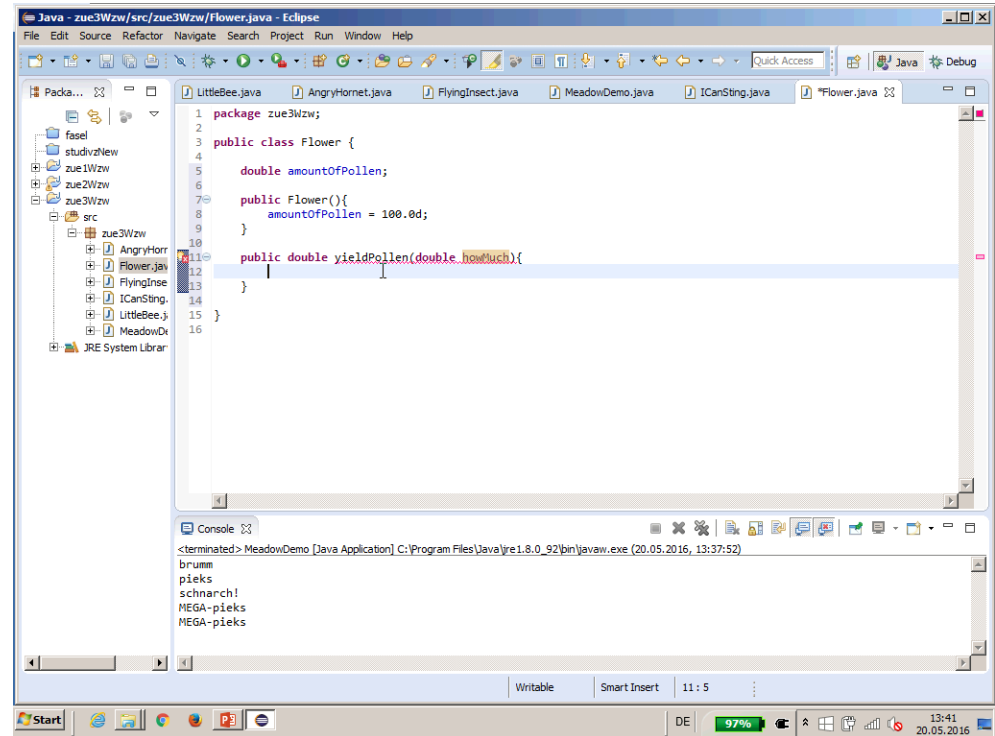
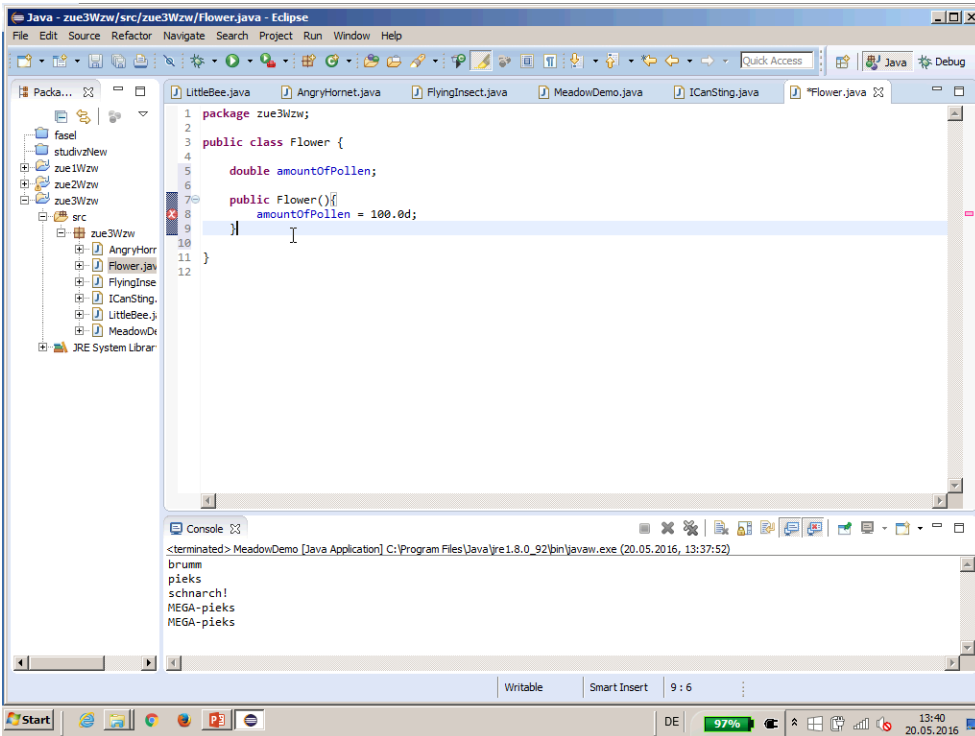
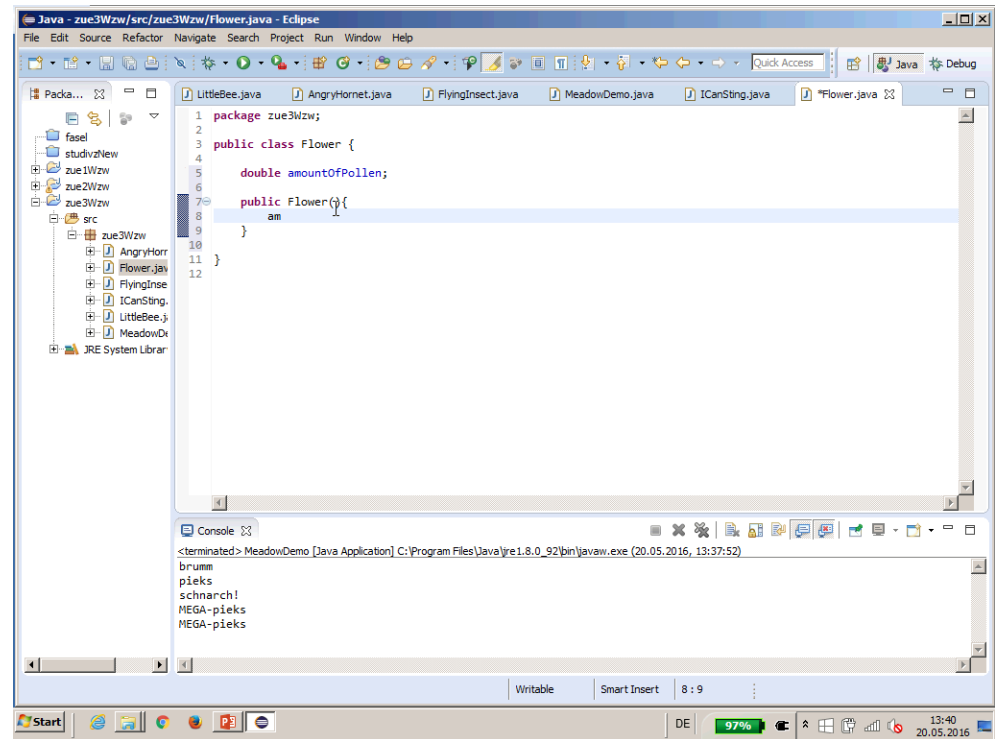
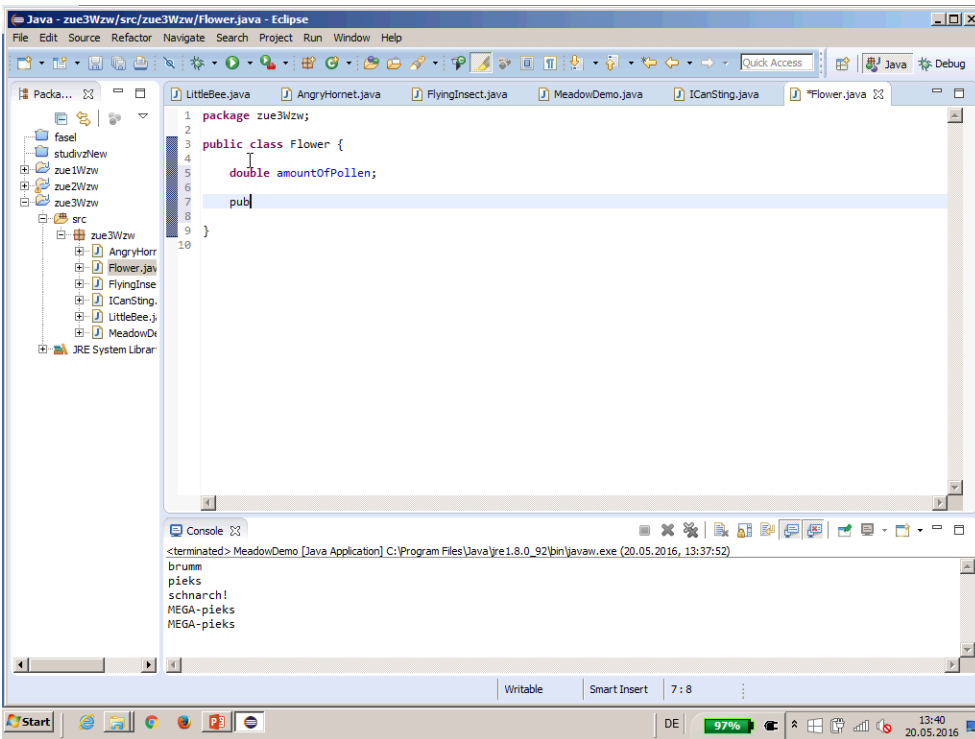
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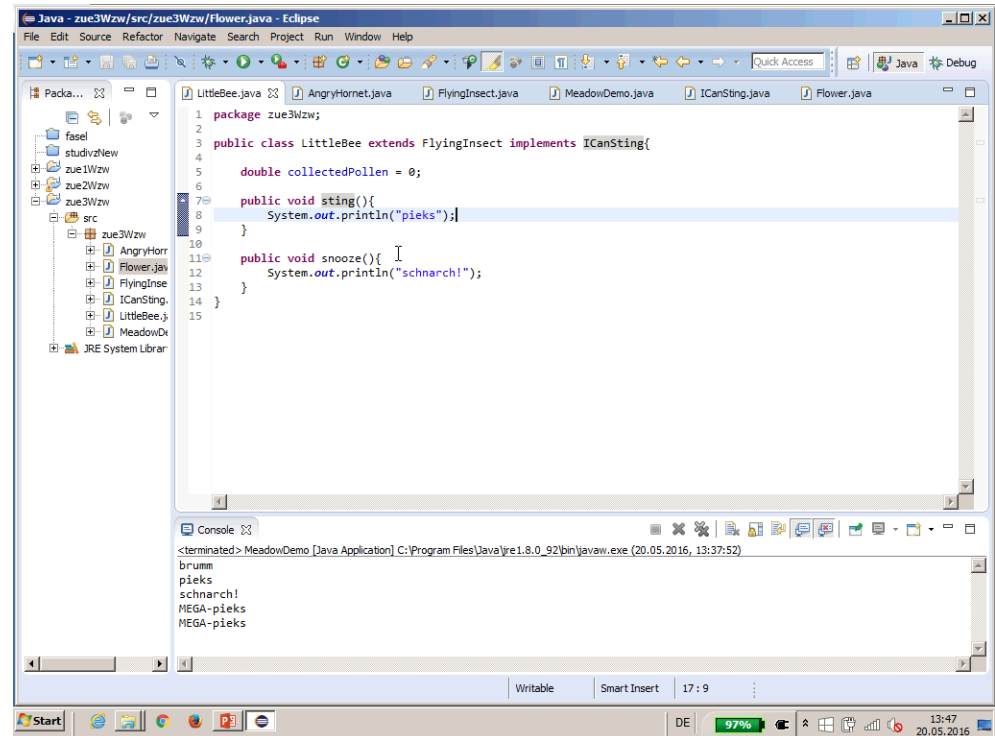
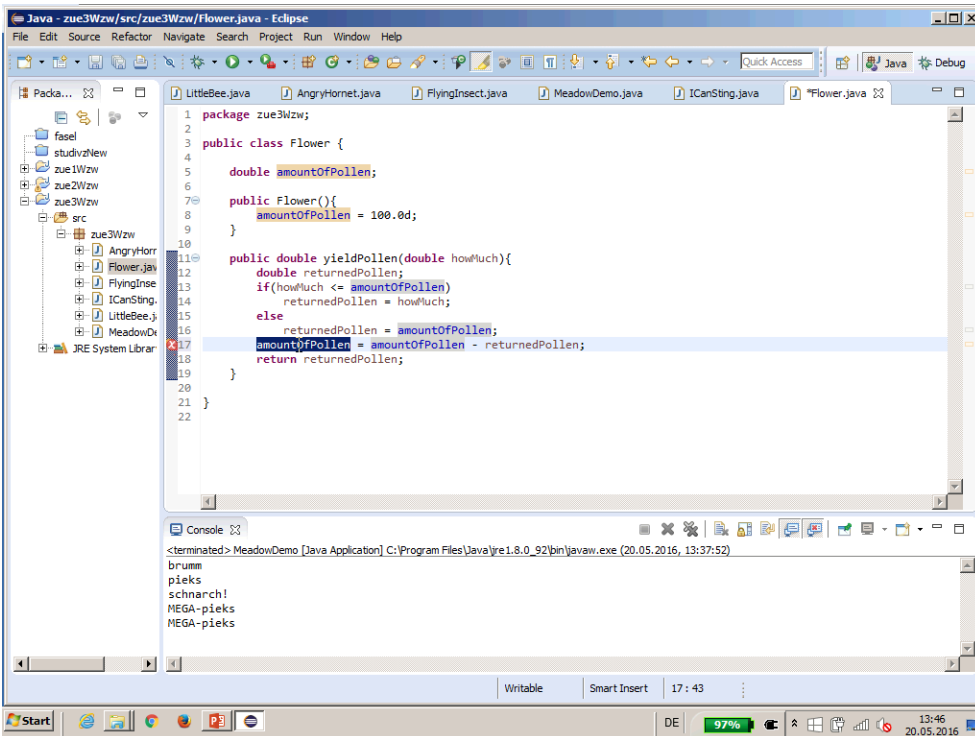
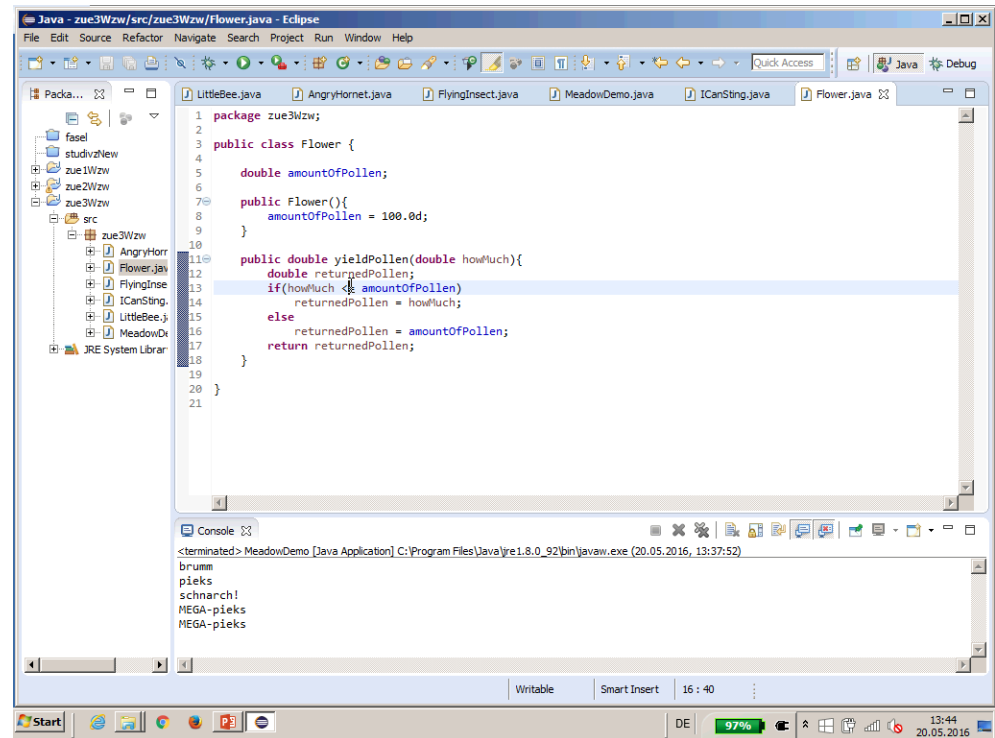
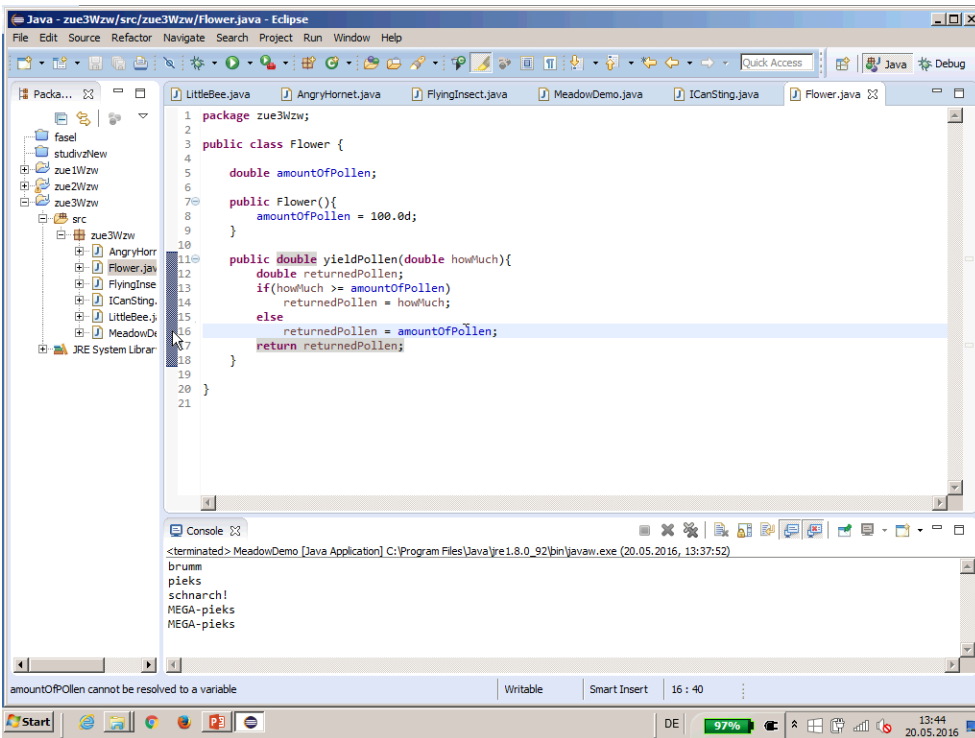
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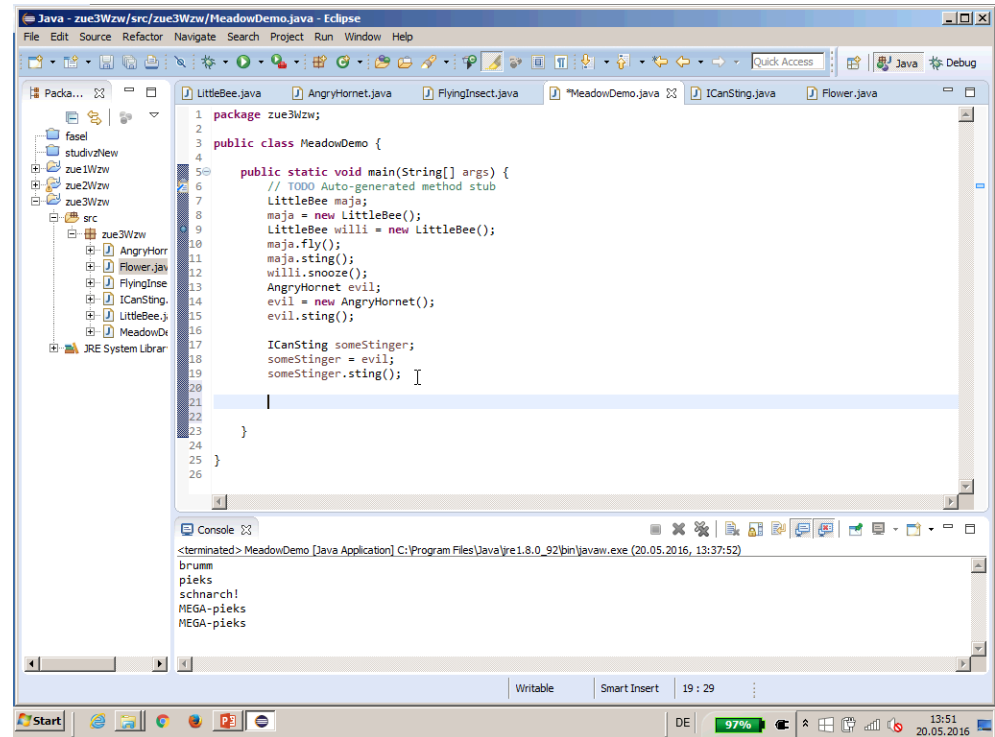
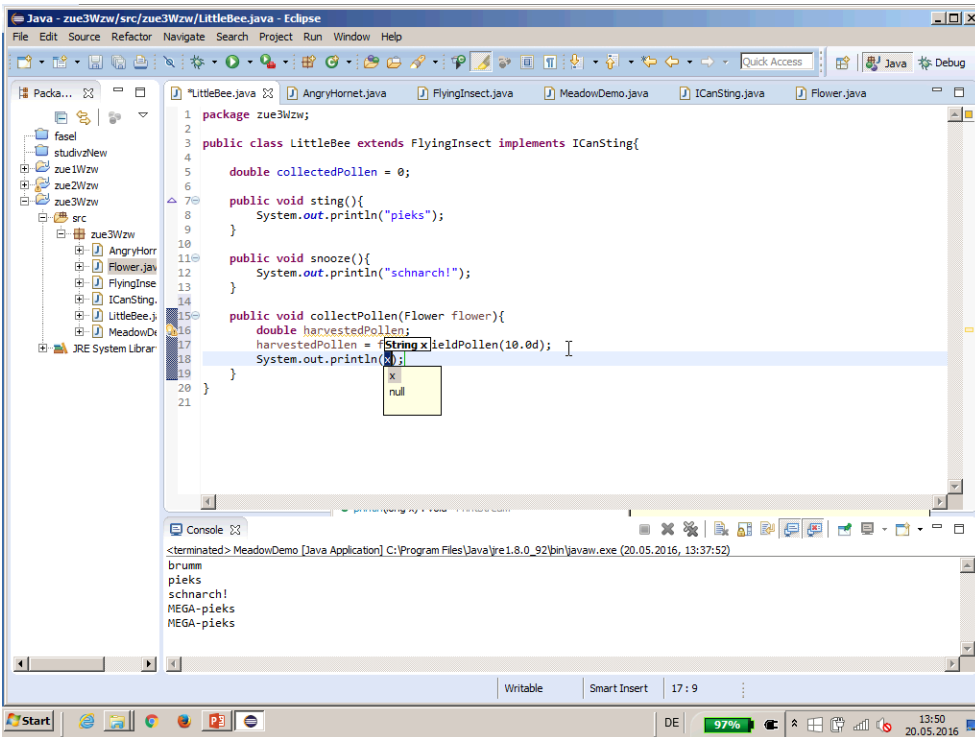
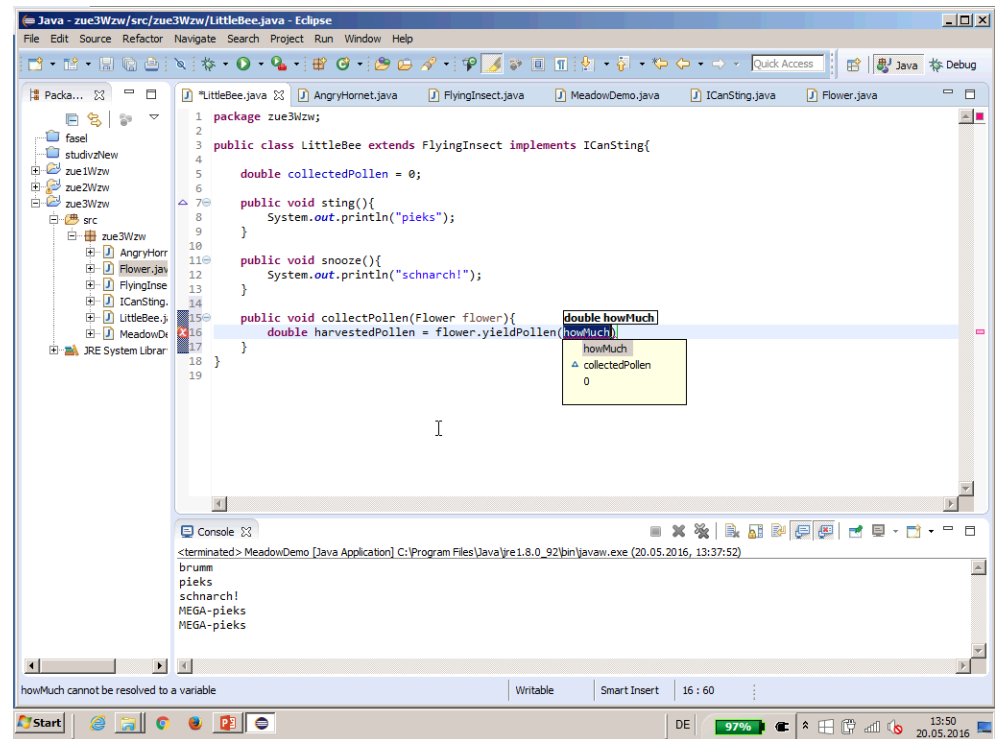
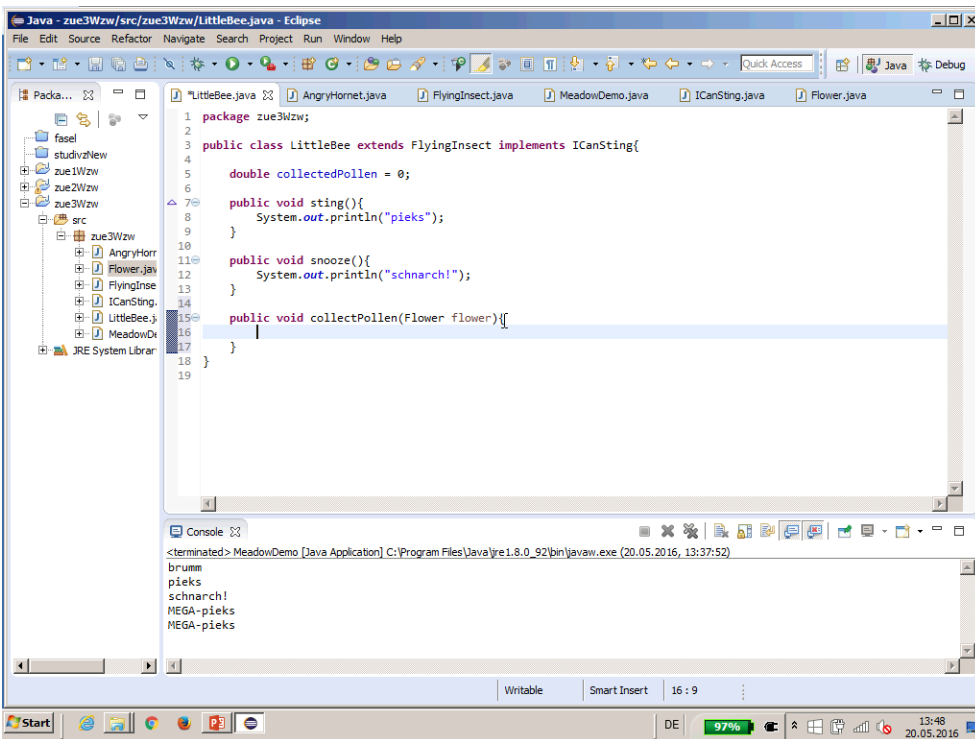


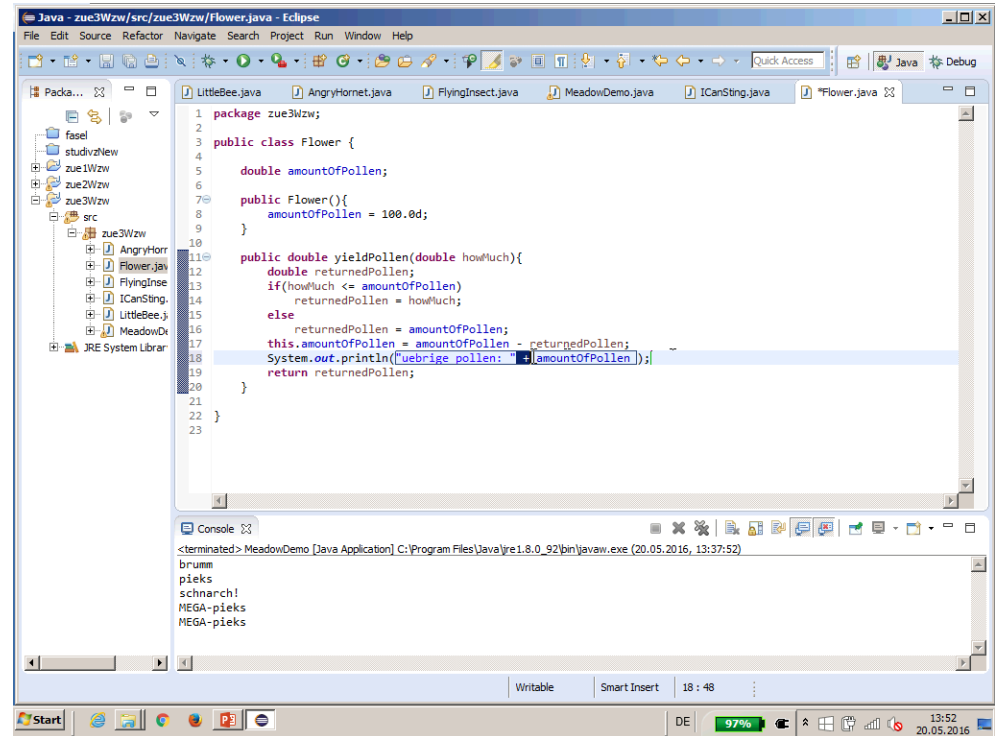
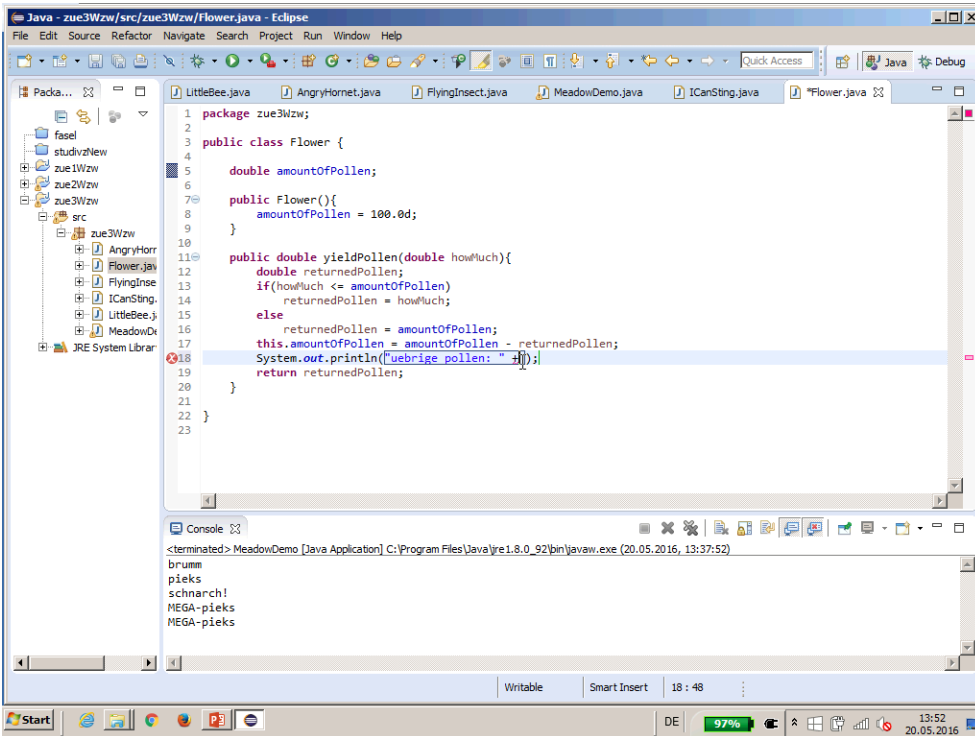
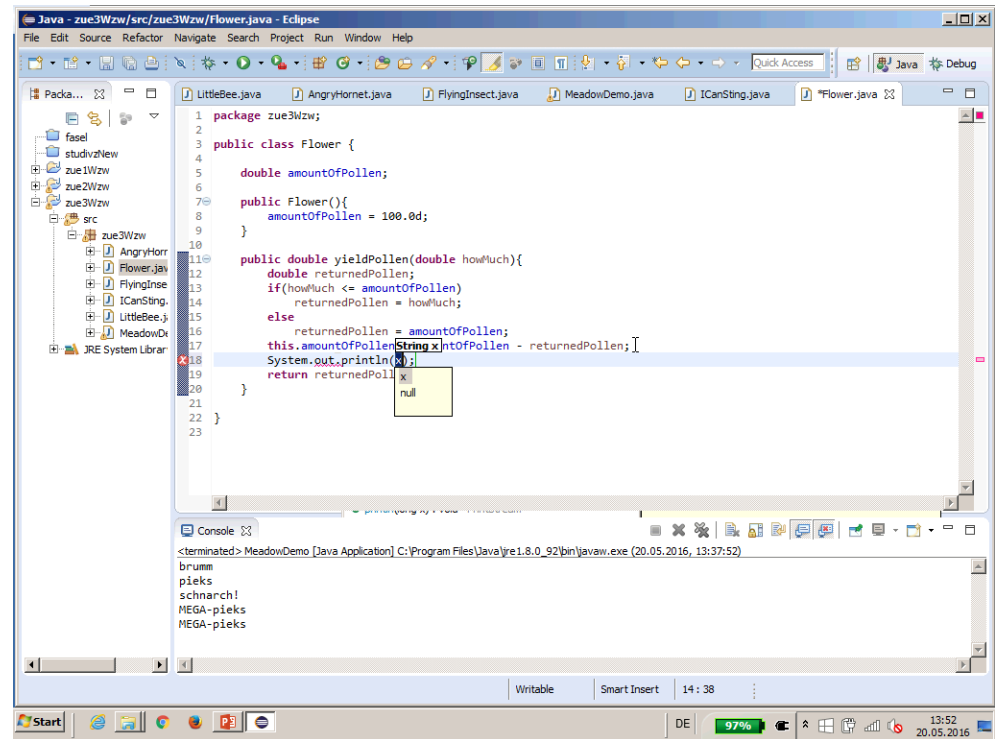
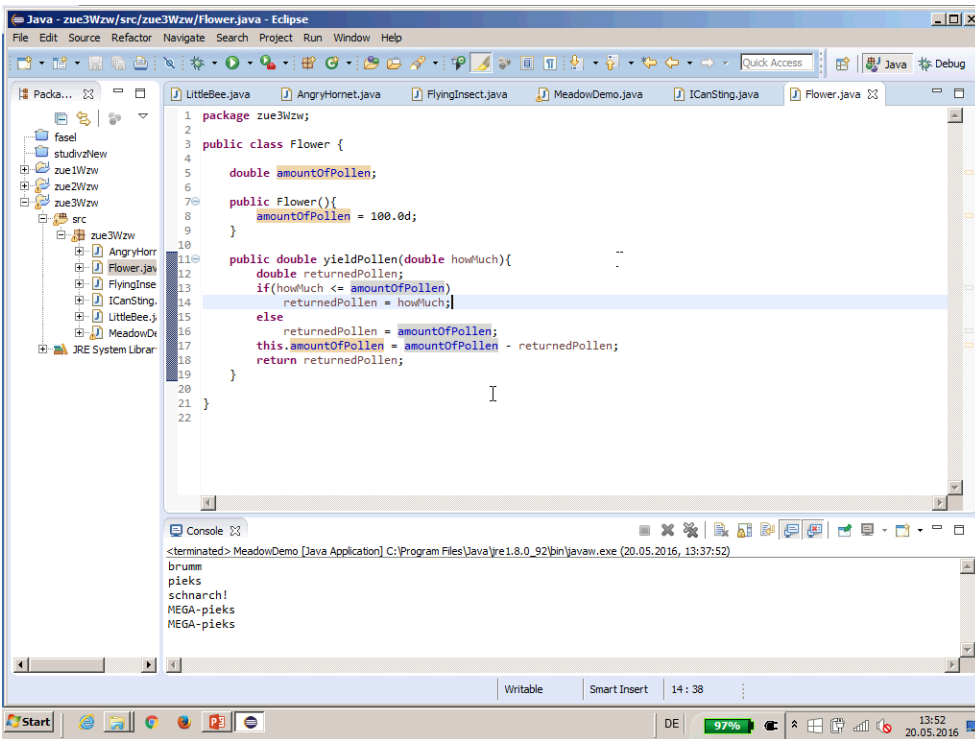


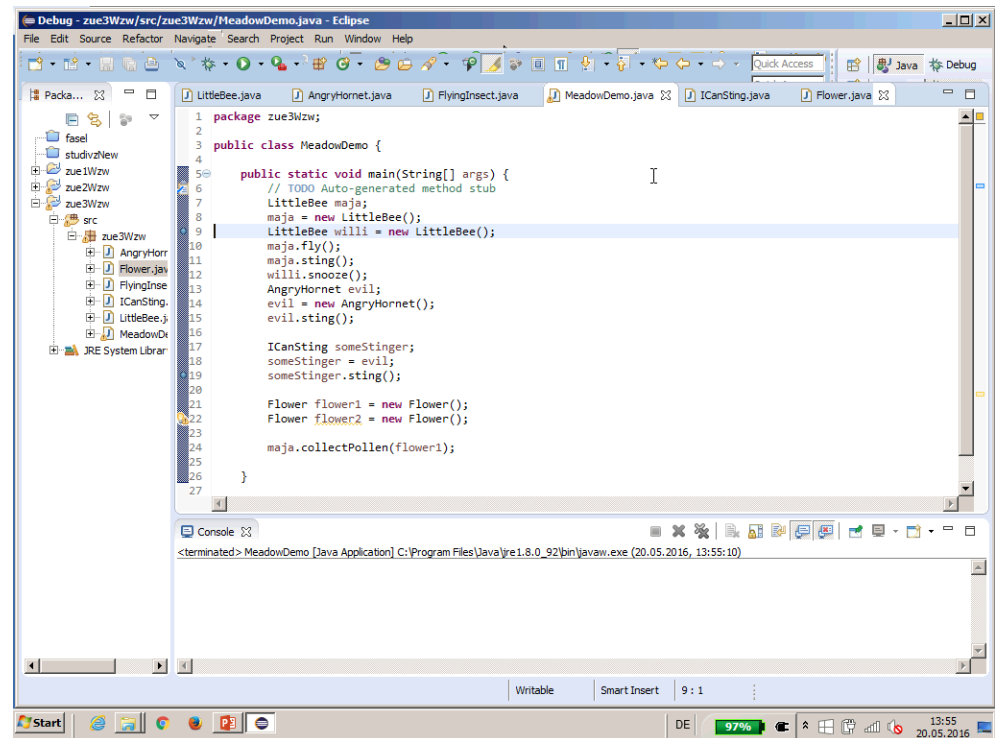
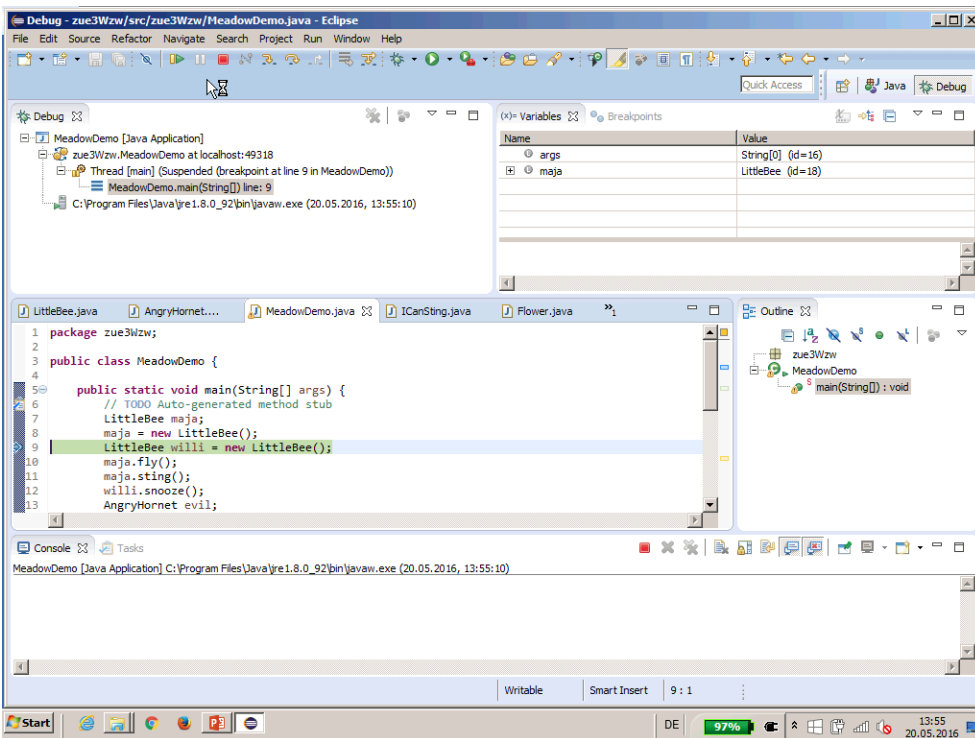
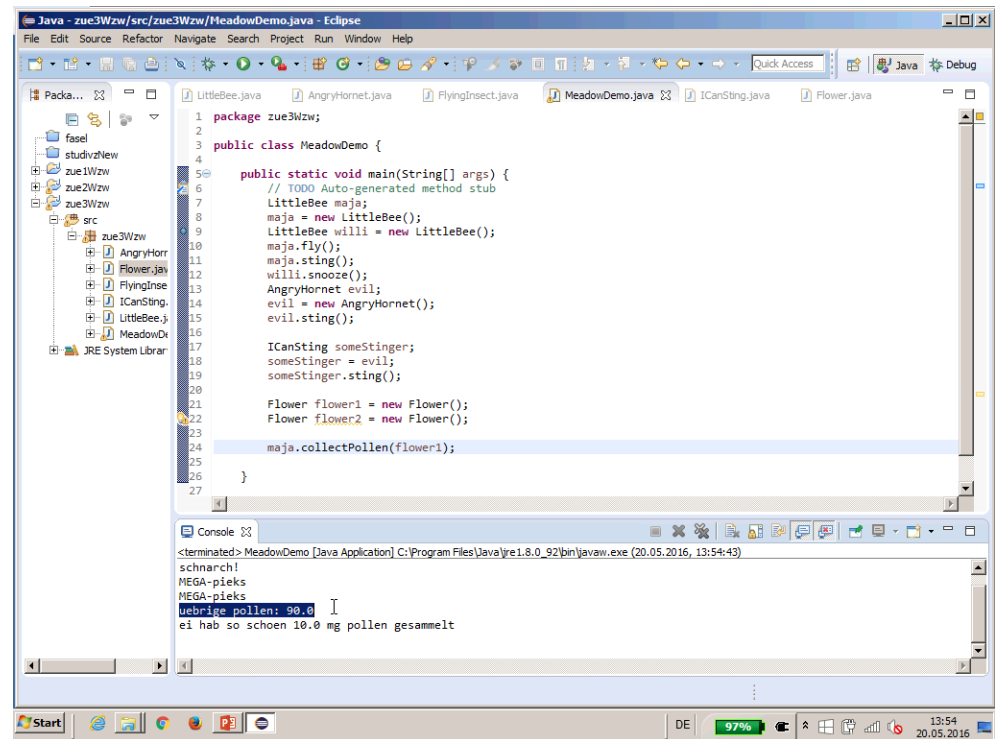
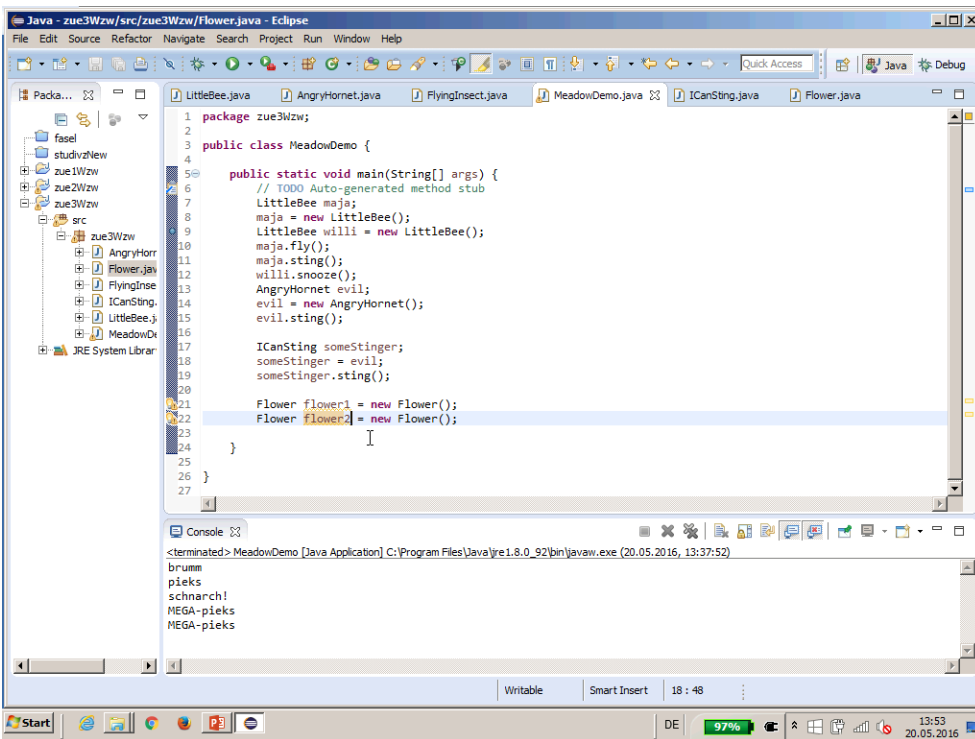












Debug - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49330
 - Thread [main] (Suspended (breakpoint at line 19 in MeadowDemo))
 - MeadowDemo.main(String[]) line: 19

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)

LittleBee.java AngryHornet... MeadowDemo.java ICanSting.java Flower.java

```

15 evil.sting();
16
17 ICanSting someStinger;
18 someStinger = evil;
19 someStinger.sting();
20
21 Flower flower1 = new Flower();
22 Flower flower2 = new Flower();
23
24 maja.collectPollen(flower1);
25
26
27
  
```

Outline

- zue3Wzw
 - MeadowDemo
 - main(String[]): void

Console

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
brumm
pieks
schnarch!
MEGA-pieks
  
```

Start DE 97% 13:55 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49330
 - Thread [main] (Suspended)
 - LittleBee.collectPollen(Flower) line: 17
 - MeadowDemo.main(String[]) line: 24

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)

LittleBee.java AngryHornet... MeadowDemo.java ICanSting.java Flower.java

```

9 }
10
11 public void snooze(){
12     System.out.println("schnarch!");
13 }
14
15 public void collectPollen(Flower flower){
16     double harvestedPollen;
17     harvestedPollen = flower.yieldPollen(10.0d);
18     System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
19 }
20
21
  
```

Outline

- zue3Wzw
 - LittleBee
 - collectedPollen: double
 - sting(): void
 - snooze(): void
 - collectPollen(Flower): void

Console

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
pieks
schnarch!
MEGA-pieks
MEGA-pieks
  
```

Start DE 97% 13:56 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/LittleBee.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49330
 - Thread [main] (Suspended)
 - LittleBee.collectPollen(Flower) line: 17
 - MeadowDemo.main(String[]) line: 24

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)

LittleBee.java AngryHornet... MeadowDemo.java ICanSting.java Flower.java

```

9 }
10
11 public void snooze(){
12     System.out.println("schnarch!");
13 }
14
15 public void collectPollen(Flower flower){
16     double harvestedPollen;
17     harvestedPollen = flower.yieldPollen(10.0d);
18     System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
19 }
20
21
  
```

Outline

- zue3Wzw
 - LittleBee
 - collectedPollen: double
 - sting(): void
 - snooze(): void
 - collectPollen(Flower): void

Console

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
pieks
schnarch!
MEGA-pieks
MEGA-pieks
  
```

Start DE 97% 13:56 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/Flower.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java Debug

Debug

MeadowDemo [Java Application]

- zue3Wzw.MeadowDemo at localhost:49330
 - Thread [main] (Suspended)
 - Flower.yieldPollen(double) line: 13
 - LittleBee.collectPollen(Flower) line: 17
 - MeadowDemo.main(String[]) line: 24

C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)

LittleBee.java AngryHornet... MeadowDemo.java ICanSting.java Flower.java

```

9 }
10
11 public double yieldPollen(double howMuch){
12     double returnedPollen;
13     if(howMuch <= amountOfPollen)
14         returnedPollen = howMuch;
15     else
16         returnedPollen = amountOfPollen;
17     this.amountOfPollen = amountOfPollen - returnedPollen;
18     System.out.println("uebrige pollen: " + amountOfPollen );
19     return returnedPollen;
20 }
21
  
```

Outline

- zue3Wzw
 - Flower
 - amountOfPollen: double
 - Flower(): void
 - yieldPollen(double): double

Console

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
pieks
schnarch!
MEGA-pieks
MEGA-pieks
  
```

Start DE 97% 13:57 20.05.2016

Debug - zue3Wzw/src/zue3Wzw/Flower.java - Eclipse

MeadowDemo [Java Application] at localhost:49330

- Thread [main] (Suspended)
 - LittleBee.collectPollen(Flower) line: 17
 - MeadowDemo.main(String[]) line: 24

Variables:

Name	Value
this	LittleBee (d=18)
flower	Flower (d=28)

```

9   }
10  }
11  public void snooze(){
12      System.out.println("schnarch!");
13  }
14
15  public void collectPollen(Flower flower){
16      double harvestedPollen;
17      harvestedPollen = flower.yieldPollen(10.0d);
18      System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
19  }
20  }
21  }
  
```

Console:

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
schnarch!
MEGA-pieks
MEGA-pieks
uebrige pollen: 90.0
  
```

Debug - zue3Wzw/src/zue3Wzw/LittleBee.java - Eclipse

MeadowDemo [Java Application] at localhost:49330

- Thread [main] (Suspended)
 - LittleBee.collectPollen(Flower) line: 18
 - MeadowDemo.main(String[]) line: 24

Variables:

Name	Value
this	LittleBee (d=18)
flower	Flower (d=28)
harvestedPollen	10.0

```

9   }
10  }
11  public void snooze(){
12      System.out.println("schnarch!");
13  }
14
15  public void collectPollen(Flower flower){
16      double harvestedPollen;
17      harvestedPollen = flower.yieldPollen(10.0d);
18      System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
19  }
20  }
21  }
  
```

Console:

```

MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
schnarch!
MEGA-pieks
MEGA-pieks
uebrige pollen: 90.0
  
```

Java - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

```

3  public class MeadowDemo {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          LittleBee maja;
8          maja = new LittleBee();
9          LittleBee willi = new LittleBee();
10         maja.fly();
11         maja.sting();
12         willi.snooze();
13         AngryHornet evil;
14         evil = new AngryHornet();
15         evil.sting();
16
17         ICanSting someStinger;
18         someStinger = evil;
19         someStinger.sting();
20
21         Flower flower1 = new Flower();
22         Flower flower2 = new Flower();
23
24         maja.collectPollen(flower1);
25
26     }
27
28
29
  
```

Console:

```

<terminated> MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 13:55:36)
pieks
schnarch!
MEGA-pieks
MEGA-pieks
uebrige pollen: 90.0
ei hab so schoen 10.0 mg pollen gesammelt
  
```

Java - zue3Wzw/src/zue3Wzw/MeadowDemo.java - Eclipse

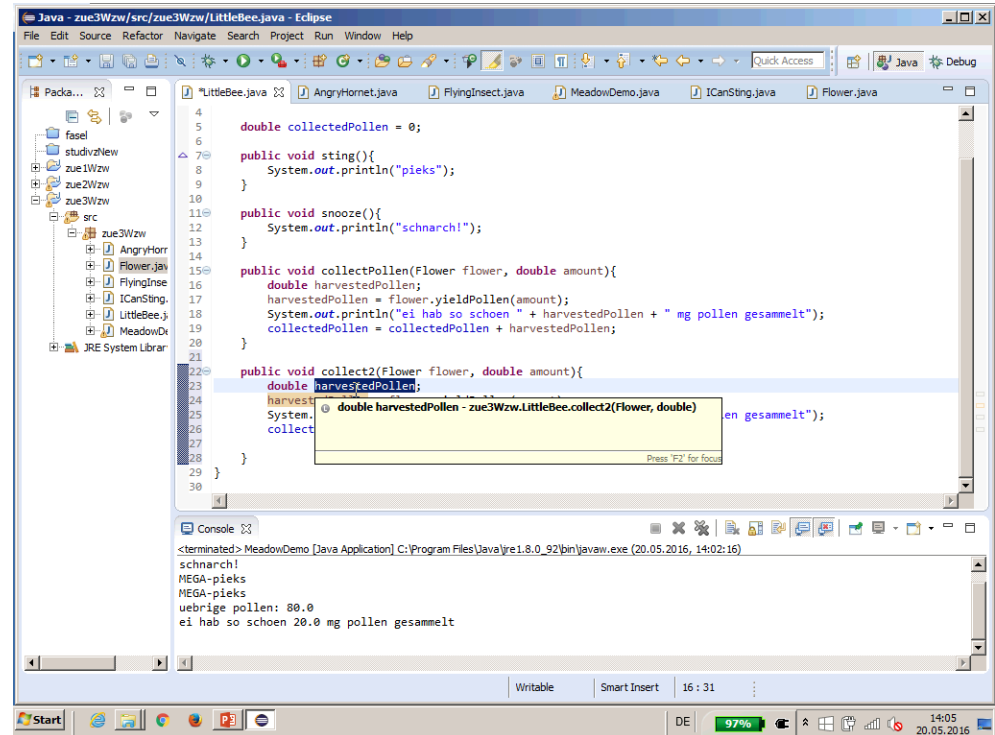
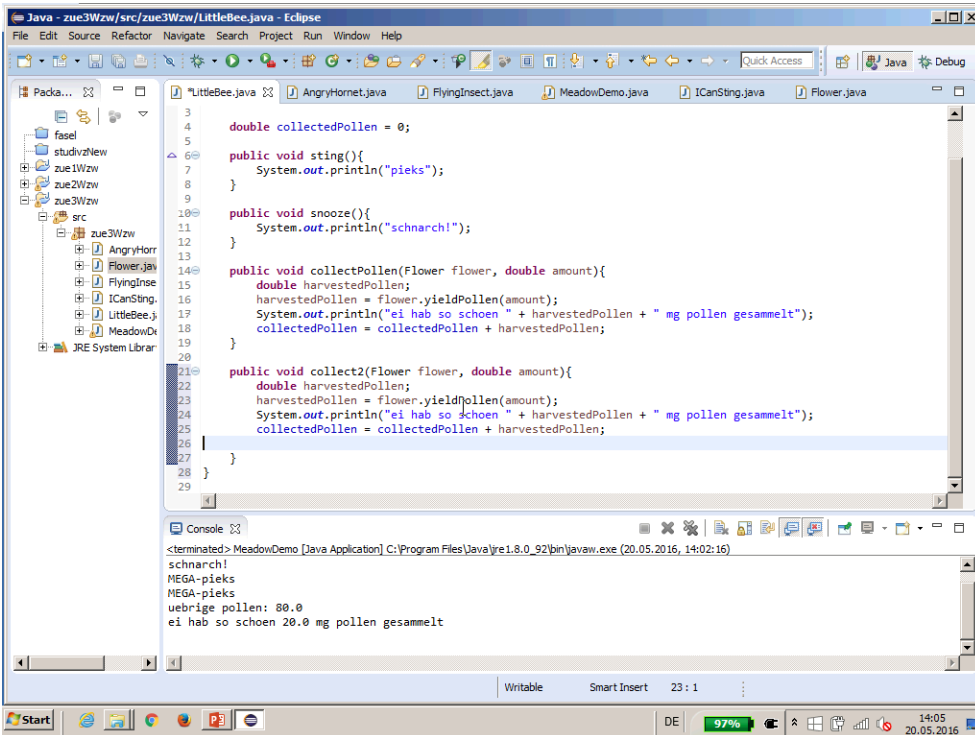
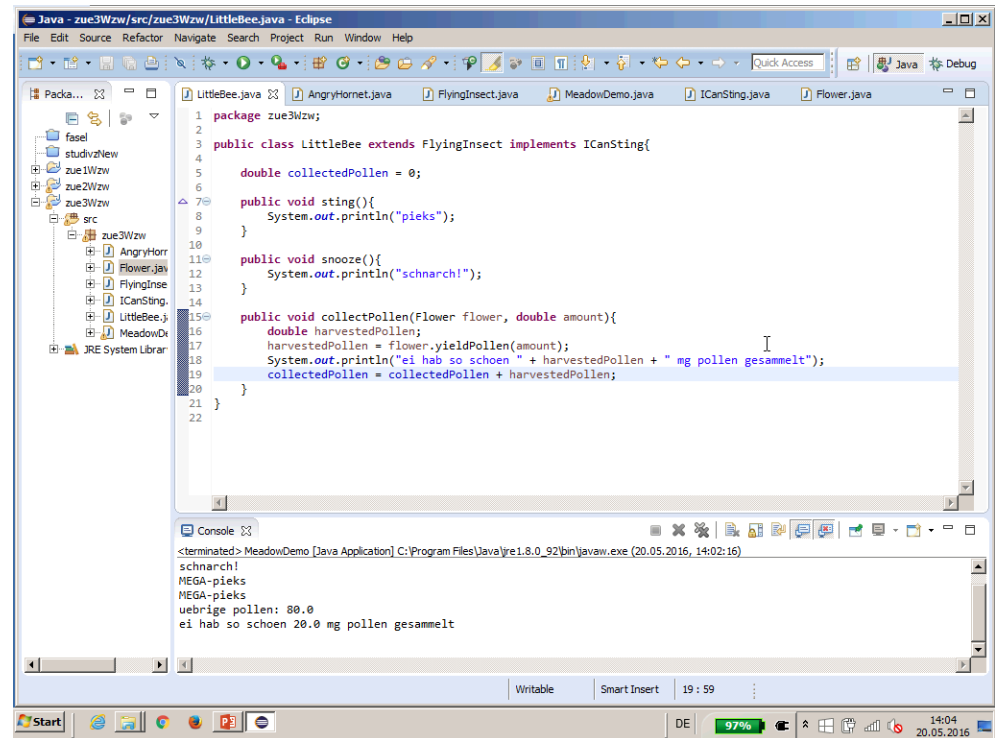
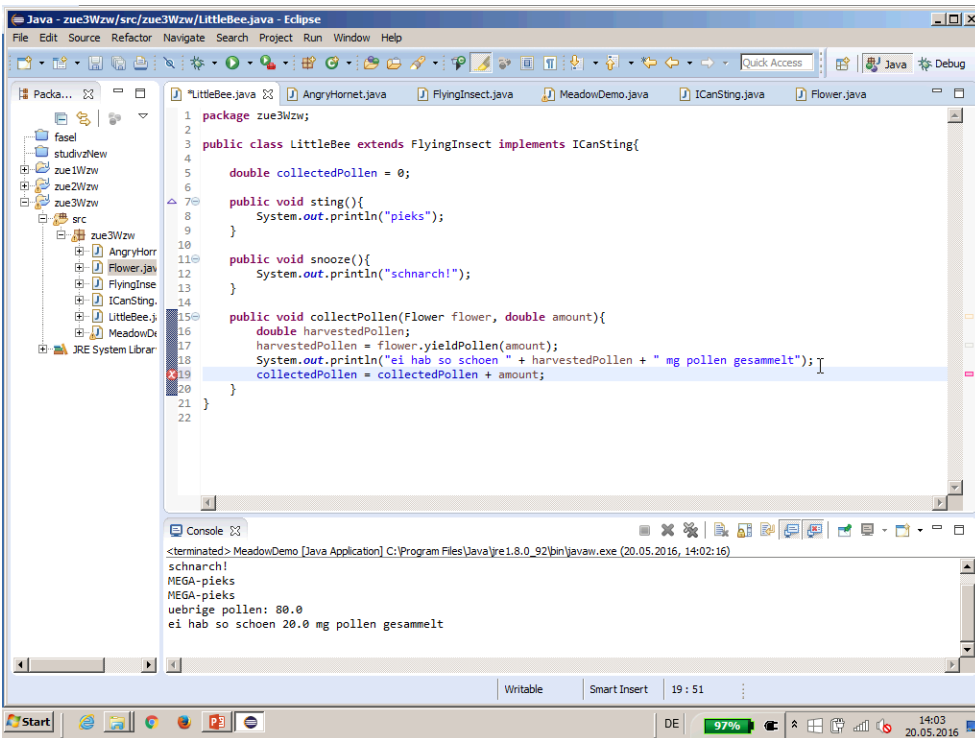
```

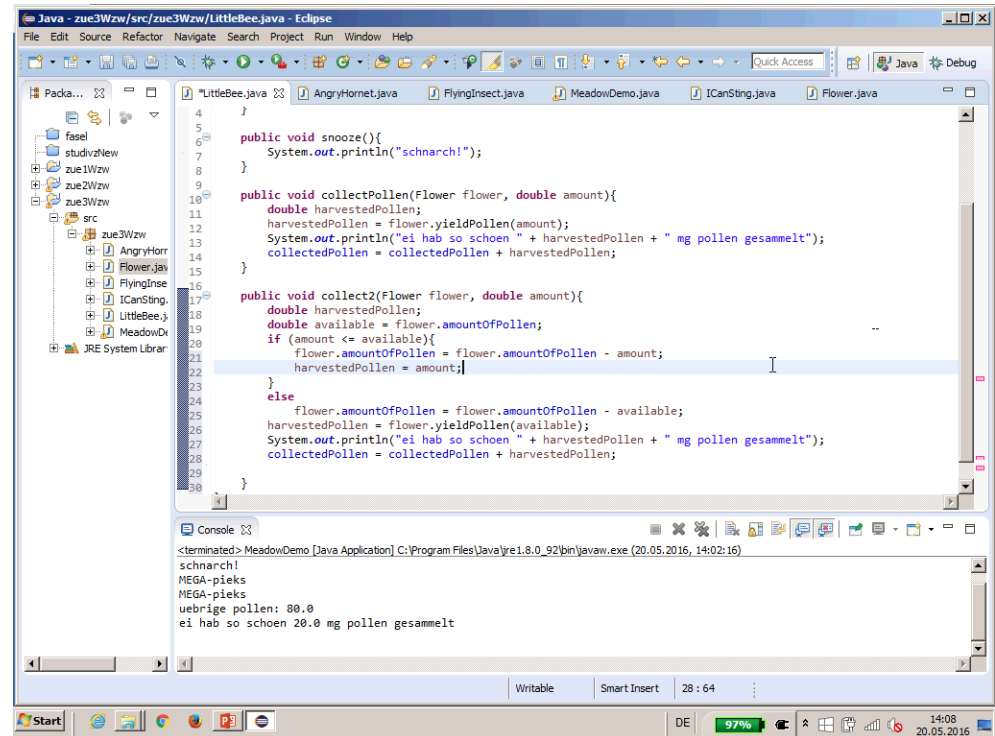
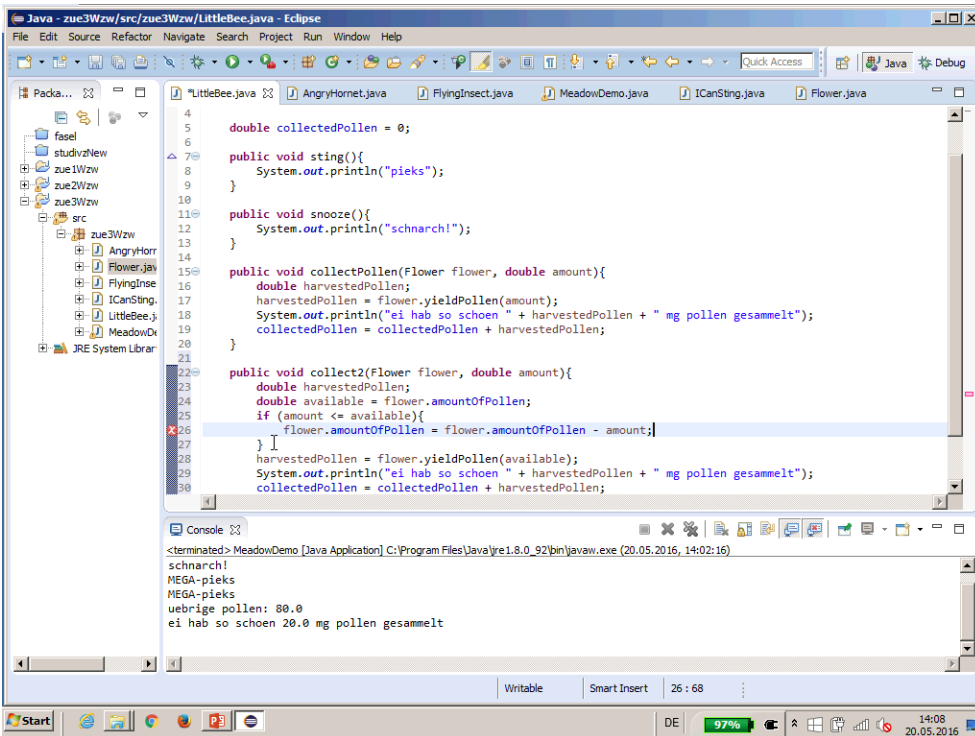
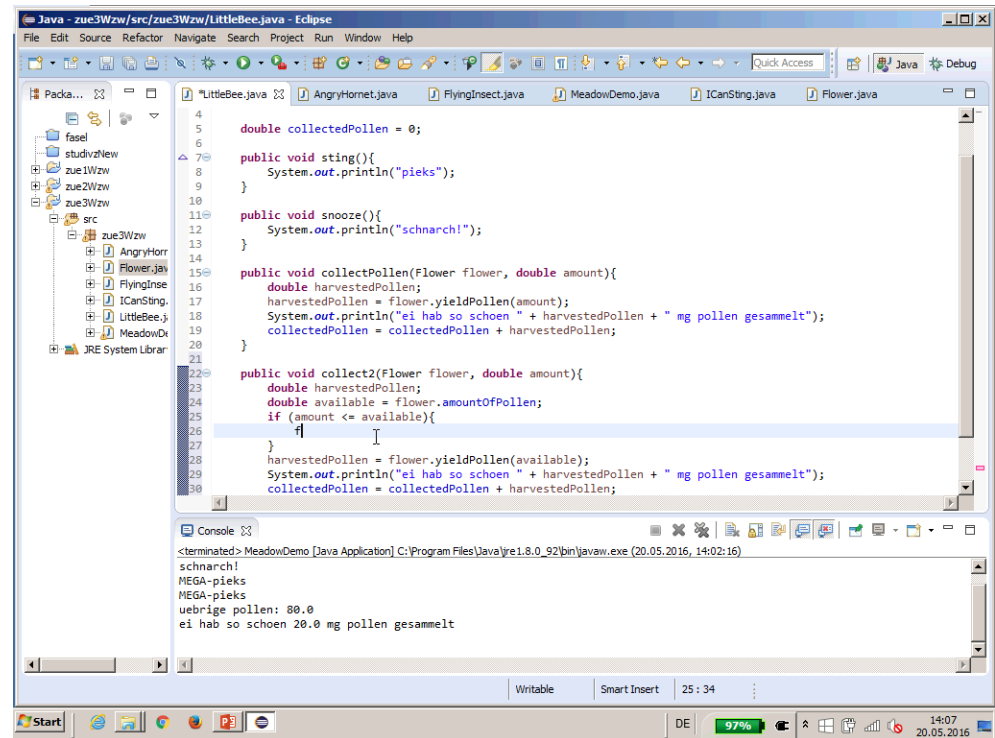
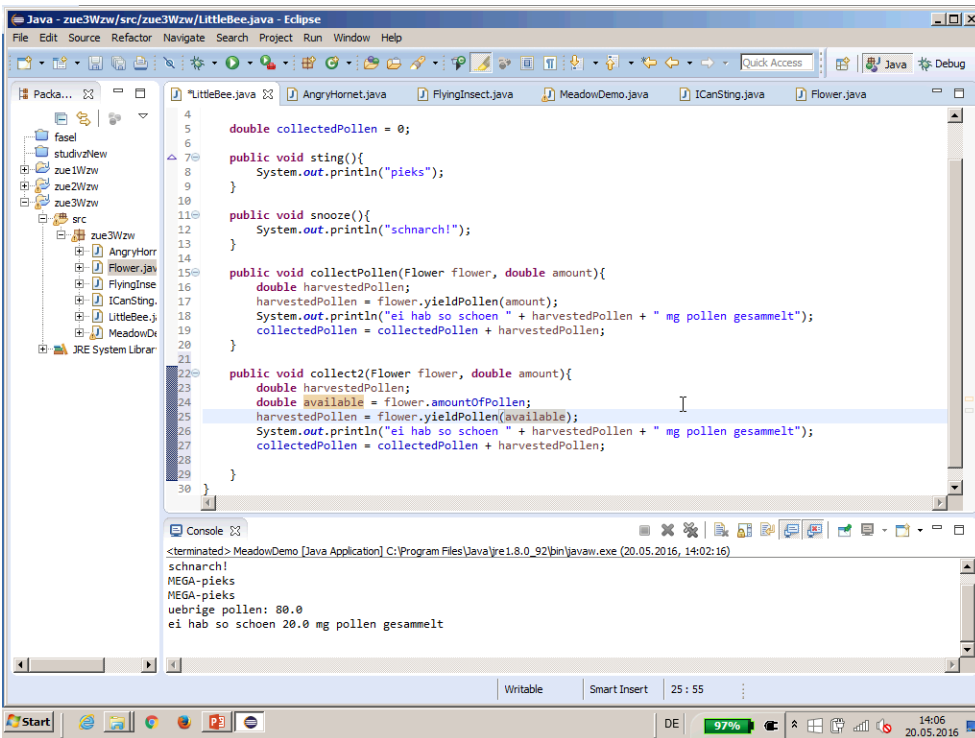
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17         ICanSting someStinger;
18         someStinger = evil;
19         someStinger.sting();
20
21         Flower flower1 = new Flower();
22         Flower flower2 = new Flower();
23
24         maja.collectPollen(flower1, 20.0d);
25
26     }
27
28
29
  
```

Console:

```

<terminated> MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 14:02:16)
schnarch!
MEGA-pieks
MEGA-pieks
uebrige pollen: 80.0
ei hab so schoen 20.0 mg pollen gesammelt
  
```





```

10
11 public void snooze(){
12     System.out.println("schnarch!");
13 }
14
15 public void collectPollen(Flower flower, double amount){
16     double harvestedPollen;
17     harvestedPollen = flower.yieldPollen(amount);
18     System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
19     collectedPollen = collectedPollen + harvestedPollen;
20 }
21
22 public void collect2(Flower flower, double amount){
23     double harvestedPollen;
24     double available = flower.amountOfPollen;
25     if (amount <= available){
26         flower.amountOfPollen = flower.amountOfPollen - amount;
27         harvestedPollen = amount;
28     }
29     else{
30         flower.amountOfPollen = flower.amountOfPollen - available;
31         harvestedPollen = available;
32     }
33     System.out.println("ei hab so schoen " + harvestedPollen + " mg pollen gesammelt");
34     collectedPollen = collectedPollen + harvestedPollen;
35 }

```

```

<terminated> MeadowDemo [Java Application] C:\Program Files\Java\jre1.8.0_92\bin\javaw.exe (20.05.2016, 14:02:16)
schnarch!
MEGA-pieks
MEGA-pieks
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35 }

```

```

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uebrige pollen: 80.0
ei hab so schoen 20.0 mg pollen gesammelt

```

Variablen

- **Definition Variable** (informell): mit einem **Bezeichner** (Name) versehener **Platzhalter für Werte** eines bestimmten **Typs**. Variablen haben eine **Adresse im Speicher**.
- Variablen (bzw. ihre Werte) haben einen **Typ**:
 - primitiver Typ oder
 - Referenztyp

Variablen

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 - primitiver Typ oder
 - Referenztyp

	(Typ-)Definition	Deklaration	Instantiierung	Manipulation	Test auf Gleichheit
Primitiv	(vordefiniert)	int a;	a = 117;	a = b + 42;	a == b;
Referenz	class Student { // Fields and // methods ... }	Student heiner;	heiner = new Student();	heiner = horst; <small>je nach Betrachtungsweise auch (Vorsicht!↔ genaue Definition! Siehe Folie 58f):</small> heiner.age = 21; heiner.yawn();	heiner.equals(horst);

	(Typ-)Definition	Deklaration	Instantiierung	Manipulation	Test auf Gleichheit
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Variablen

Vereinfachtes Speicher-Modell

Zellnr (Adresse)	Zellname (Variablenname)	Zellinhalt
1123	horst	101
1124	heiner	56384658
1125		37465845
...
1150	bike1.cadence	0
1151	bike1.speed	0
1152	bike1.gear	3
...
1330	bike2.cadence	0
1331	bike2.speed	0
1332	bike2.gear	1
1333	bike2.seatHeight	15
...
4027		void changeCadence(int newValue) {
4028		cadence = newValue;
4029		}
...
4035		int horst = 101;

Primitive Typen:

```
int horst = 101;
long heiner;
heiner = 5638465837465845;
```

Referenz Typen:

```
Bicycle bike1 = new Bicycle();
bike1.gear = 3;

MountainBike bike2 =
    new MountainBike();
```

Variablen

Vereinfachtes Speicher-Modell

Zellnr (Adresse)	Zellname (Variablenname)	Zellinhalt
1123	horst	101
1124	heiner	56384658
1125		37465845
...
1150	bike1.cadence	0
1151	bike1.speed	0
1152	bike1.gear	3
...
1330	bike2.cadence	0
1331	bike2.speed	0
1332	bike2.gear	1
1333	bike2.seatHeight	15
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1331	bike2.speed	0
1332	bike2.gear	1
1333	bike2.seatHeight	15
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4027		void changeCadence(int newValue) {
4028		cadence = newValue;
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Referenz Typen:

```
Bicycle bike1 = new Bicycle();
bike1.gear = 3;

MountainBike bike2 =
    new MountainBike();
```

Variablen

Vereinfachtes Speicher-Modell

Primitive Typen:

```
int horst = 101;  
long heiner;  
heiner = 5638465837465845;
```

Referenz Typen:

```
Bicycle bikel = new Bicycle();  
bikel.gear = 3;  
  
MountainBike bike2 =  
    new MountainBike();
```

Zellnr (Adresse)	Zellname (Variablenname)	Zellinhalt
1123	horst	101
1124	heiner	56384658
1125		37465845
...
1150	bikel.cadence	0
1151	bikel.speed	0
1152	bikel.gear	3
...
1330	bike2.cadence	0
1331	bike2.speed	0
1332	bike2.gear	1
1333	bike2.seatHeight	15
...
4027		void changeCadence(int newValue) {
4028		cadence = newValue;
4029		}
...
4035		int horst = 101;

Daten (bspw. Attribute)

Instruktionen der Methoden