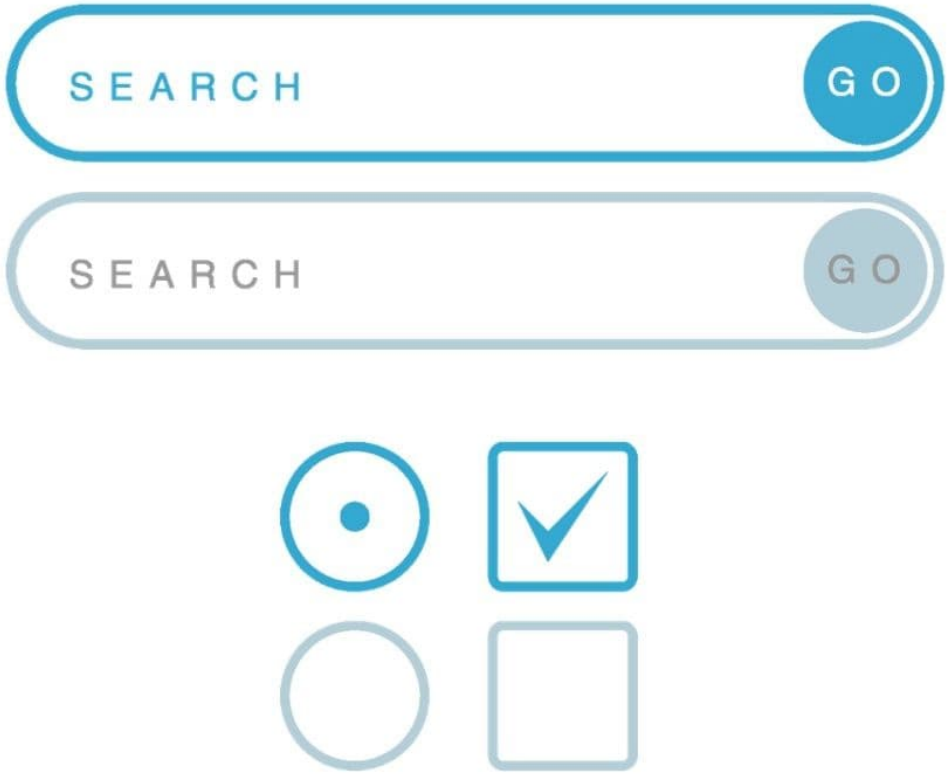
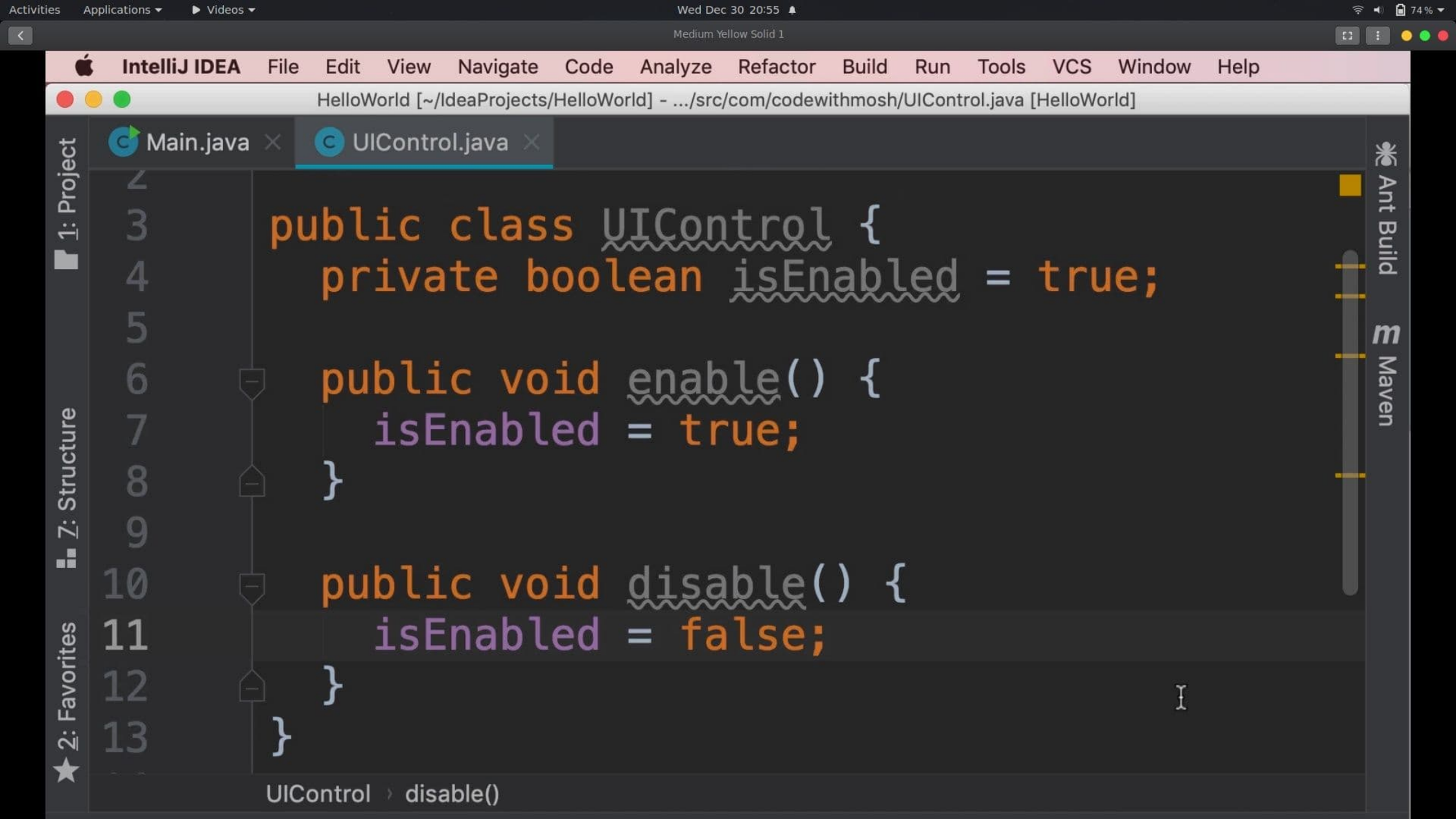
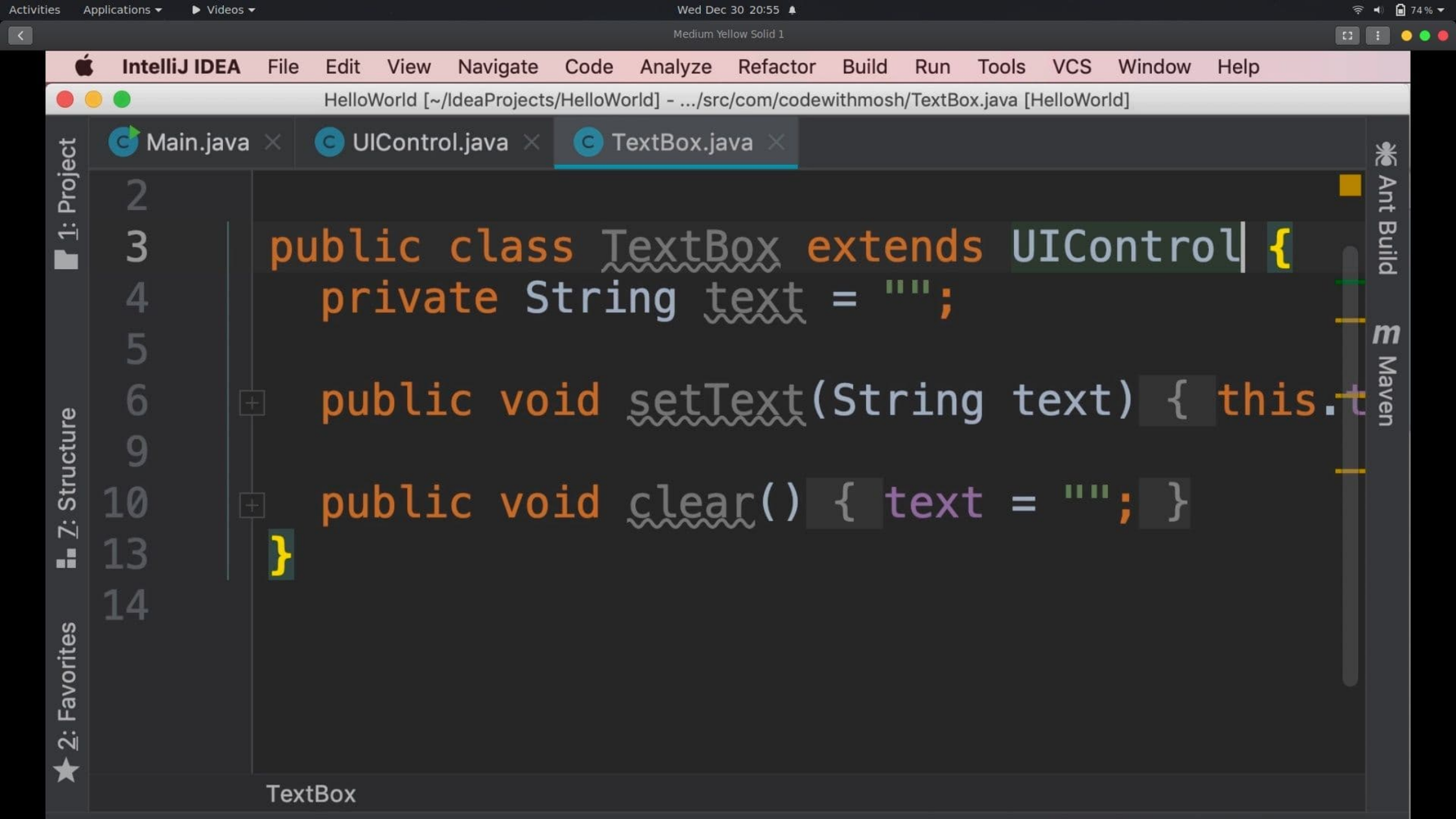
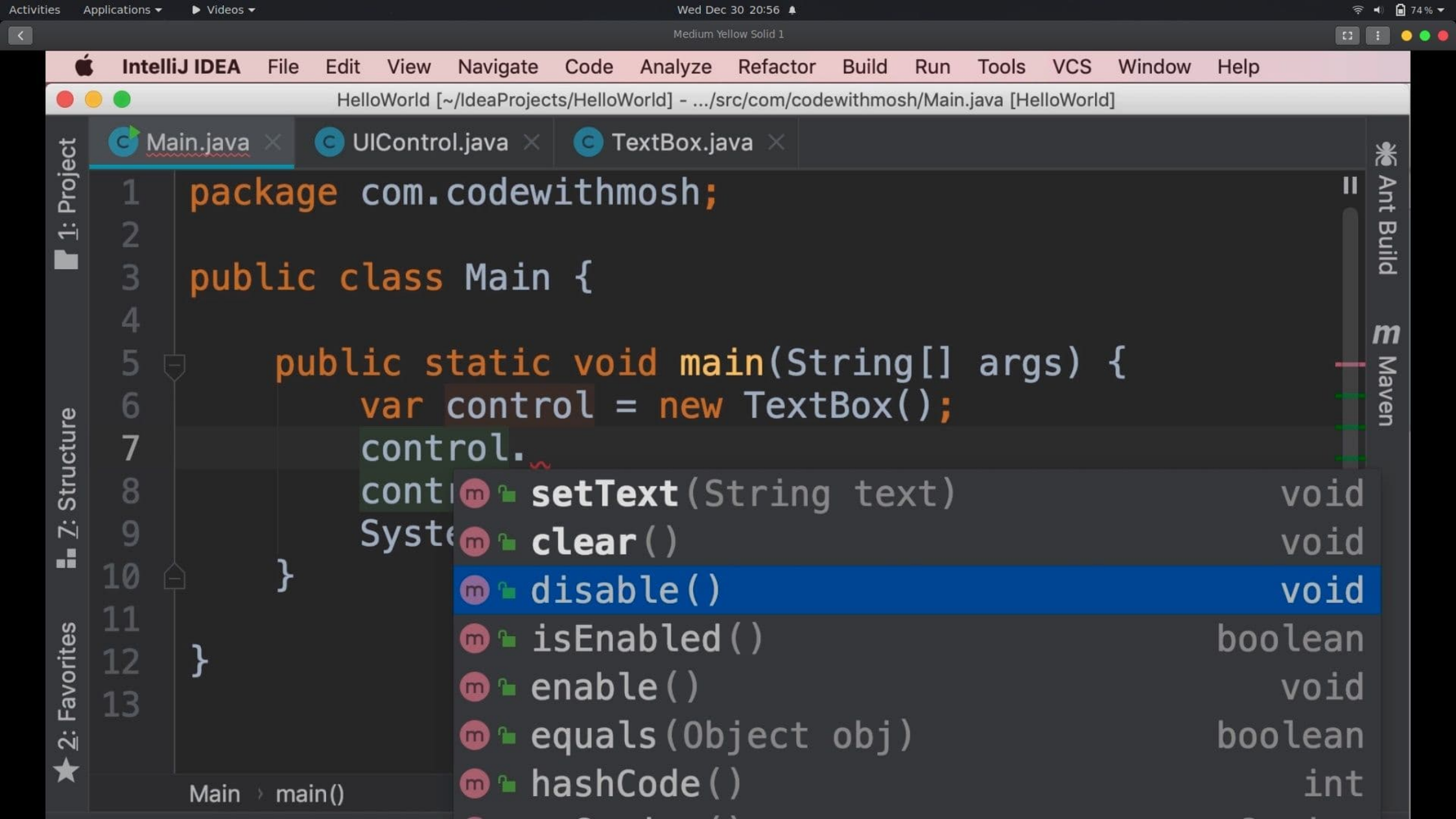
Inheritance


SEARCH
GO
SEARCH
GO


Activities
Applications
Videos
Wed Dec 30 20:55
74 %
Medium Yellow Solid 1
IntelliJ IDEA
File
Edit
View
Navigate
Code
Analyze
Refactor
Build
Run
Tools
VCS
Window
Help
HelloWorld [~/IdeaProjects/HelloWorld] - .../src/com/codewithmosh/UIControl.java [HelloWorld]
Main.java
UIControl.java
1: Project
7: Structure
2: Favorites
Ant Build
Maven
public class UIControl {
private boolean isEnabled = true;
public void enable() {
isEnabled = true;
}
public void disable() {
isEnabled = false;
}
}
UIControl › disable()


Activities
Applications
Videos
Wed Dec 30 20:55
74 %
Medium Yellow Solid 1
IntelliJ IDEA File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
HelloWorld [~/IdeaProjects/HelloWorld] - .../src/com/codewithmosh/TextBox.java [HelloWorld]
Main.java
UIControl.java
TextBox.java
1: Project
7: Structure
2: Favorites
Ant Build
Maven
2
3 public class TextBox extends UIControl {
4 private String text = "";
5
6 public void setText(String text) { this.t
9
10 public void clear() { text = ""; }
13 }
14
TextBox

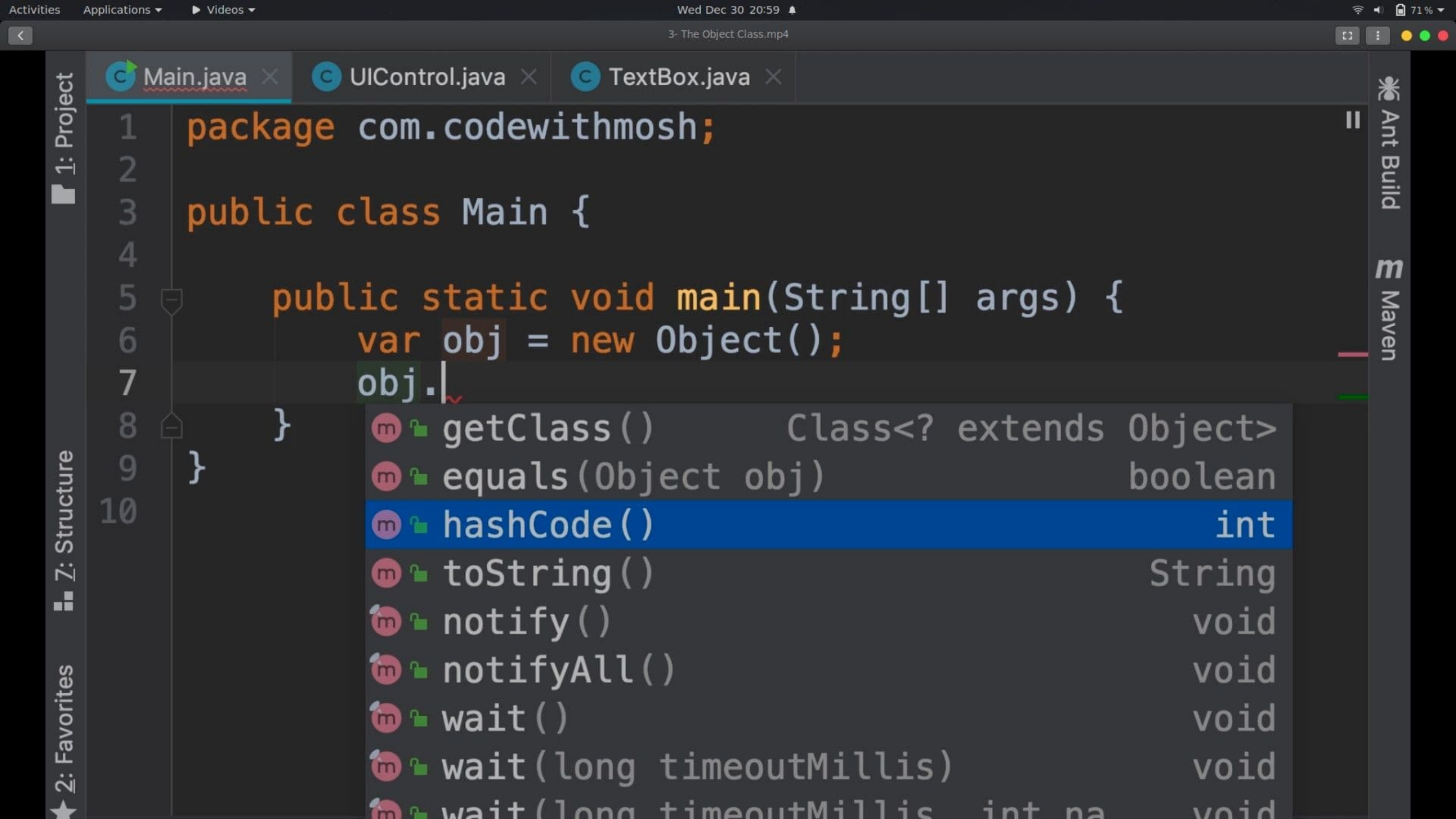

Activities
Applications
Videos
Wed Dec 30 20:56
74 %
Medium Yellow Solid 1
IntelliJ IDEA
File
Edit
View
Navigate
Code
Analyze
Refactor
Build
Run
Tools
VCS
Window
Help
HelloWorld [~/IdeaProjects/HelloWorld] - .../src/com/codewithmosh/Main.java [HelloWorld]
Main.java
UIControl.java
TextBox.java
1: Project
7: Structure
2: Favorites
Ant Build
Maven
1 package com.codewithmosh;
2
3 public class Main {
4
5 public static void main(String[] args) {
6 var control = new TextBox();
7 control.
8 cont
9 Syste
10 }
11
12 }
13
setText(String text) void
clear() void
disable() void
isEnabled() boolean
enable() void
equals(Object obj) boolean
hashCode() int
Main › main()

The Object Class

Mosh Hamedani
codewithmosh.com

Main.java | UIControl.java | TextBox.java

```
1  package com.codewithmosh;
2
3  public class UIControl extends Object {
4      private boolean isEnabled = true;
5
6      public void enable() {
7          isEnabled = true;
8      }
9
10     public void disable() {
11         isEnabled = false;
12     }
13
14     public boolean isEnabled() {
```


Activities
Applications
Videos
Wed Dec 30 20:59
71%
3- The Object Class.mp4
Main.java
UIControl.java
TextBox.java
1: Project
Z: Structure
2: Favorites
Ant Build
Maven
package com.codewithmosh;
public class Main {
public static void main(String[] args) {
var obj = new Object();
obj.
}
}
getClass() Class<? extends Object>
equals(Object obj) boolean
hashCode() int
toString() String
notify() void
notifyAll() void
wait() void
wait(long timeoutMillis) void

Constructors and Inheritance

Mosh Hamedani
codewithmosh.com

Main.java | UIControl.java | TextBox.java

```java
package com.codewithmosh;

public class UIControl {
  private boolean isEnabled = true;

  public UIControl(boolean isEnabled) {
    this.isEnabled = isEnabled;
    System.out.println("UIControl");
  }

  public void enable() {
    isEnabled = true;
  }

```

Main.java | UIControl.java | TextBox.java

```
1  package com.codewithmosh;
2
3  public class TextBox extends UIControl {
4      private String text = "";
5
6      public TextBox() {
7          System.out.println("TextBox");
8      }
9
10     public void setText(String text) { this.text
13
14     public void clear() { text = ""; }
17 }
18
```

There is no default constructor available in 'com.codewithmosh.UIControl'

Main.java | UIControl.java | TextBox.java

```
1  package com.codewithmosh;
2
3  public class TextBox extends UIControl {
4      private String text = "";
5
6      public TextBox() {
7          super( isEnabled: true);
8          System.out.println("TextBox");
9      }
10
11     public void setText(String text) { this.text
14
15     public void clear() { text = ""; }
18 }
```

Overriding Methods

Mosh Hamedani
codewithmosh.com

Main.java | UIControl.java | TextBox.java

```
5
6   public TextBox() {
7       super( isEnabled: true);
8       System.out.println("TextBox");
9   }
10
11  @Override
12  public String toString() {
13      return text;
14  }
15
16  public void setText(String text) {
17      this.text = text;
18  }
```

Main.java | UIControl.java | TextBox.java

```java
package com.codewithmosh;

public class Main {

    public static void main(String[] args) {
        var textBox = new TextBox();
        textBox.setText("Hello World");
        System.out.println(textBox.toString());
    }
}

```

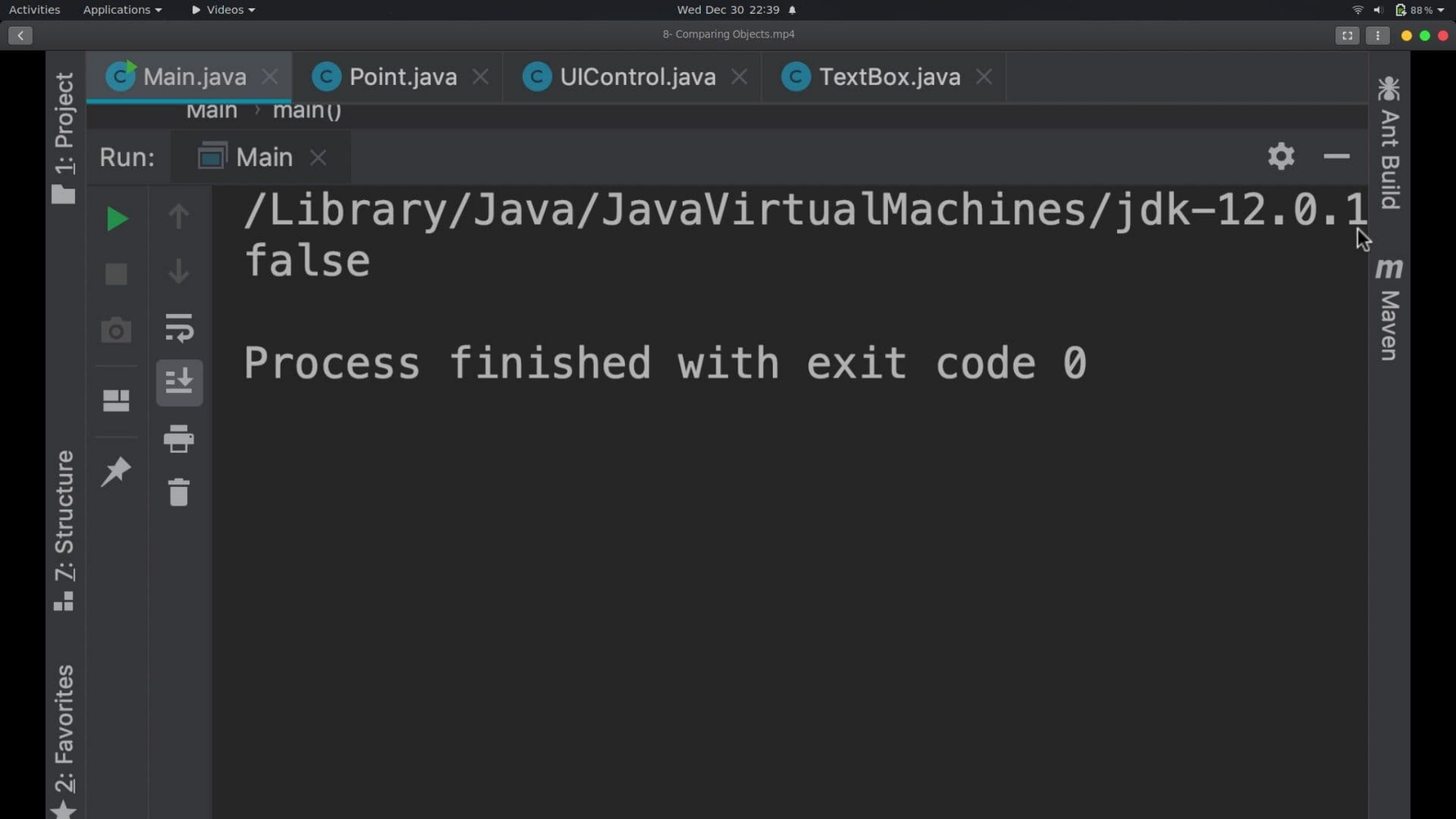
Finished, saving caches...

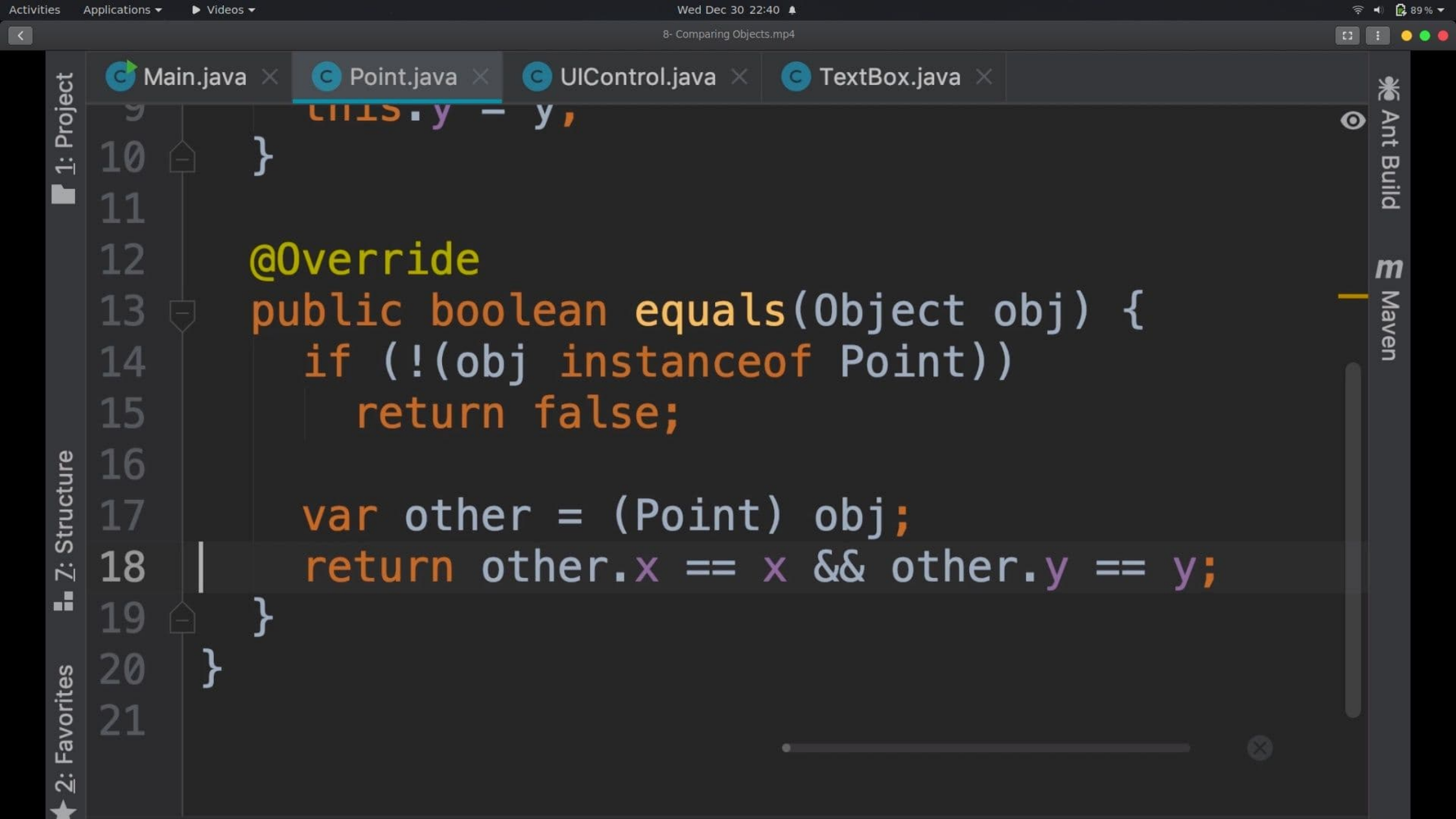
Comparing Objects

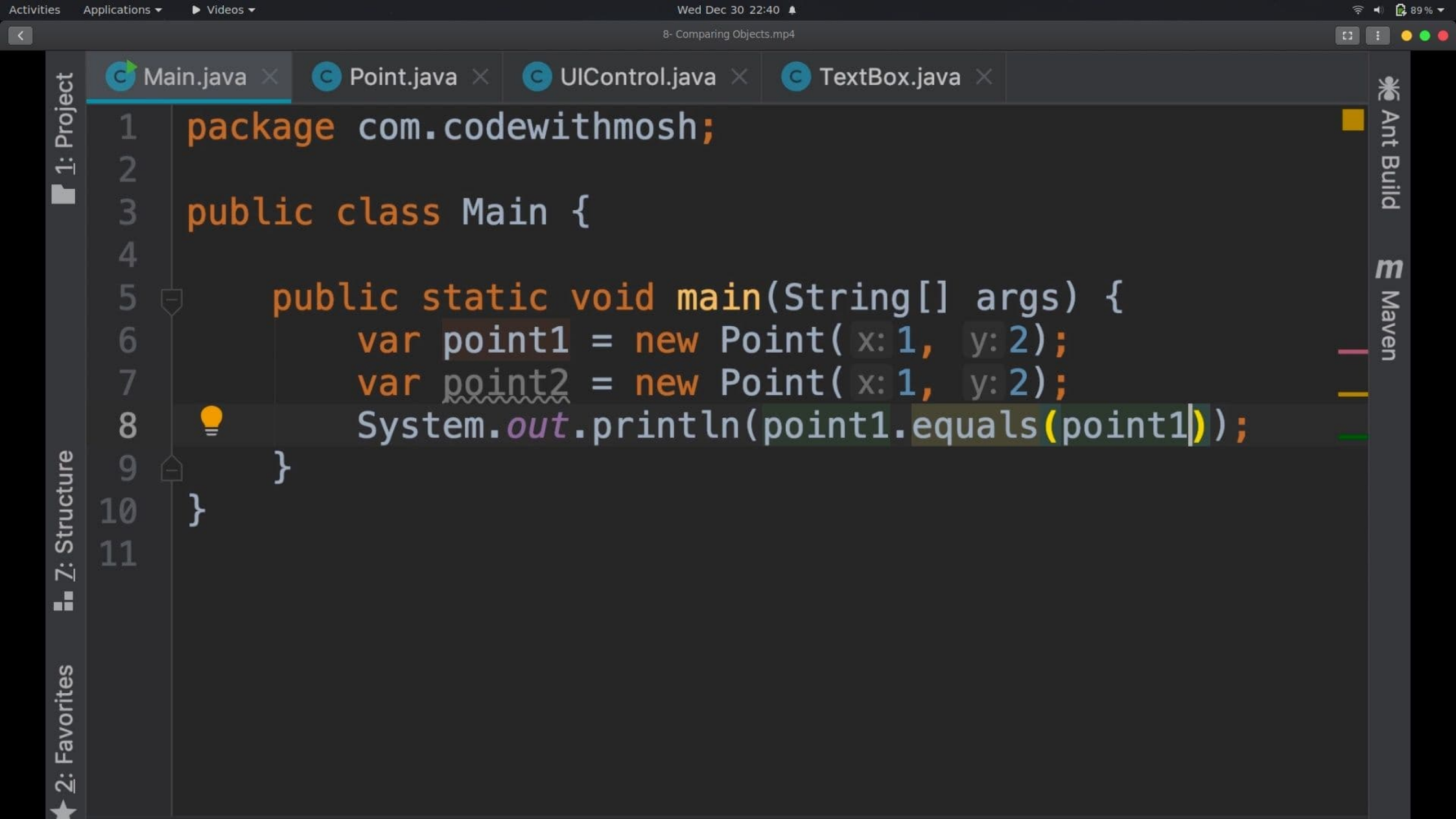
Mosh Hamedani
codewithmosh.com

Main.java | Point.java | UIControl.java | TextBox.java

```java
package com.codewithmosh;

public class Main {

    public static void main(String[] args) {
        var point1 = new Point( x: 1,  y: 2);
        var point2 = new Point( x: 1,  y: 2);
        System.out.println(point1.equals(point2));
    }
}

```

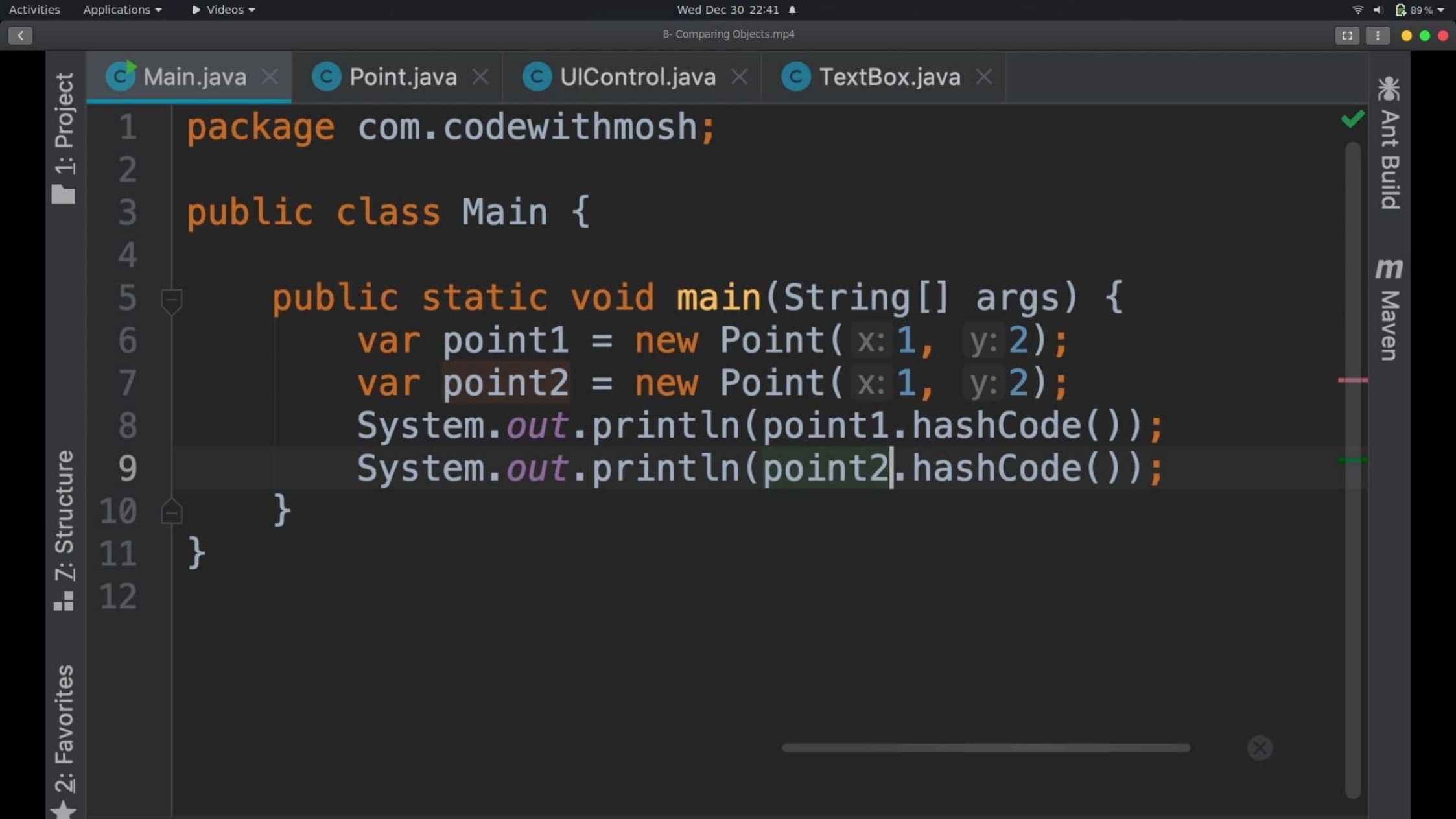

Activities
Applications
Videos
Wed Dec 30 22:39
88 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
Main
main()
Run:
Main
/Library/Java/JavaVirtualMachines/jdk-12.0.1
false
Process finished with exit code 0
1: Project
2: Favorites
7: Structure
Ant Build
Maven

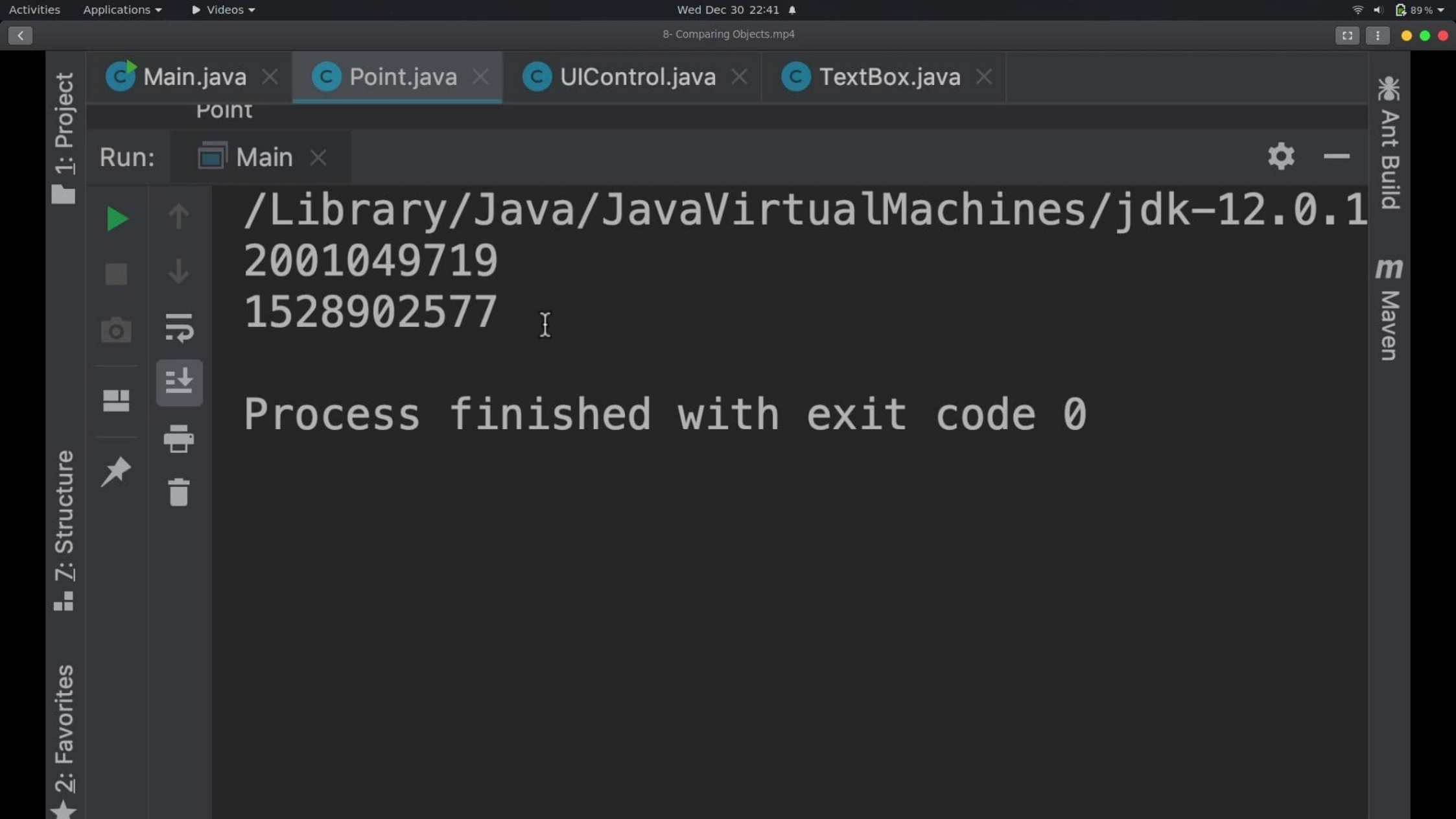

Activities
Applications
Videos
Wed Dec 30 22:40
89 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
1: Project
7: Structure
2: Favorites
Ant Build
Maven
this.y = y;
}
@Override
public boolean equals(Object obj) {
if (!(obj instanceof Point))
return false;
var other = (Point) obj;
return other.x == x && other.y == y;
}
}

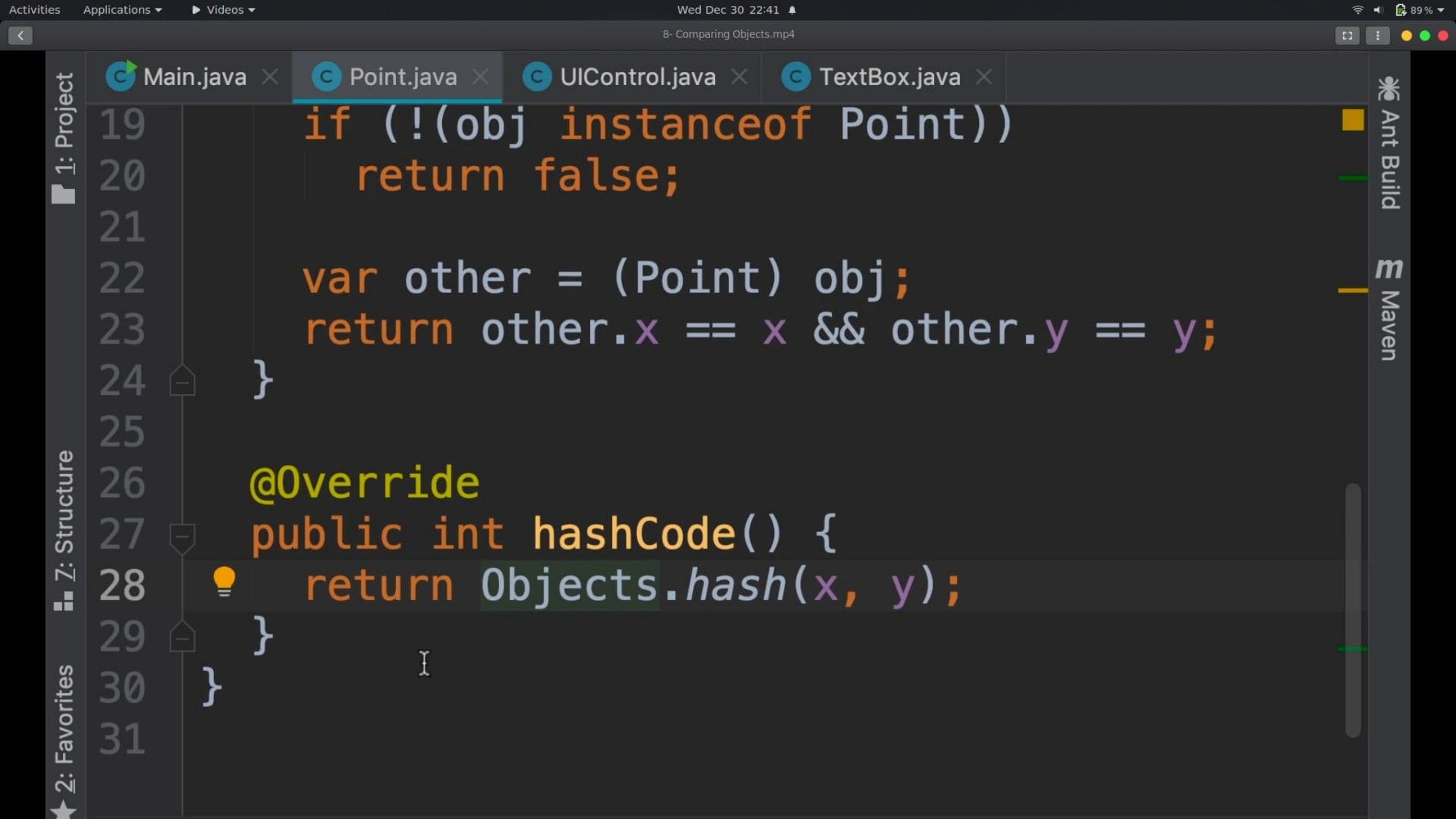

Activities
Applications
Videos
Wed Dec 30 22:40
89 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
1: Project
2: Favorites
7: Structure
Ant Build
Maven
package com.codewithmosh;
public class Main {
public static void main(String[] args) {
var point1 = new Point(x: 1, y: 2);
var point2 = new Point(x: 1, y: 2);
System.out.println(point1.equals(point1));
}
}

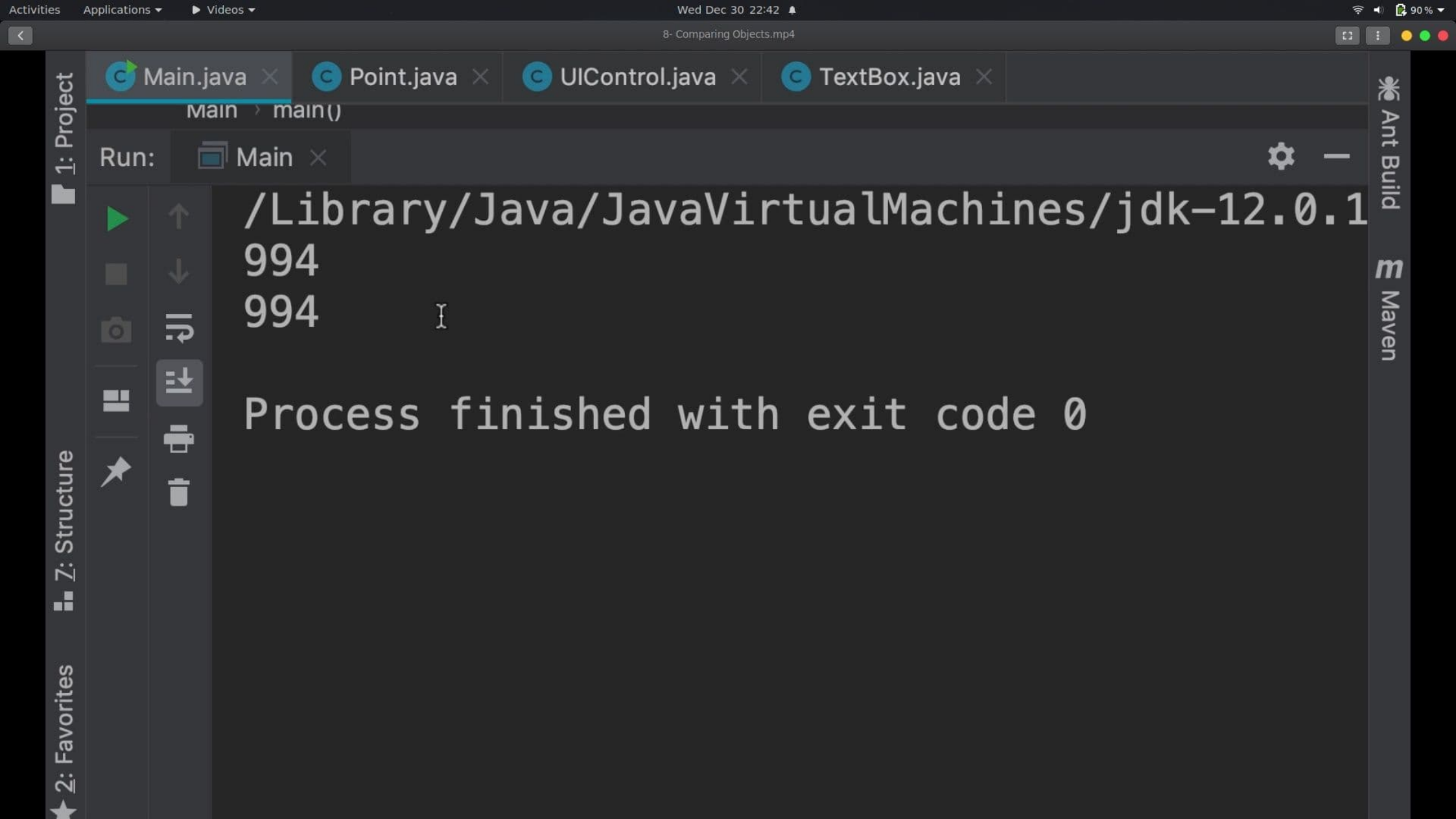
Main.java | Point.java | UIControl.java | TextBox.java

```
    this.y = y;
  }

  @Override
  public boolean equals(Object obj) {
    if (this == obj)
      return true;

    if (!(obj instanceof Point))
      return false;

    var other = (Point) obj;
    return other.x == x && other.y == y;
  }
}
```


Activities
Applications
Videos
Wed Dec 30 22:41
89 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
1: Project
2: Favorites
7: Structure
Ant Build
Maven
package com.codewithmosh;
public class Main {
public static void main(String[] args) {
var point1 = new Point(x: 1, y: 2);
var point2 = new Point(x: 1, y: 2);
System.out.println(point1.hashCode());
System.out.println(point2.hashCode());
}
}


Activities
Applications
Videos
Wed Dec 30 22:41
89 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
Point
Run:
Main
/Library/Java/JavaVirtualMachines/jdk-12.0.1
2001049719
1528902577
Process finished with exit code 0
1: Project
7: Structure
2: Favorites
Ant Build
Maven


Activities
Applications
Videos
Wed Dec 30 22:41
89 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
1: Project
2: Favorites
7: Structure
Ant Build
Maven
19 if (!(obj instanceof Point))
20 return false;
21
22 var other = (Point) obj;
23 return other.x == x && other.y == y;
24 }
25
26 @Override
27 public int hashCode() {
28 return Objects.hash(x, y);
29 }
30 }
31


Activities
Applications
Videos
Wed Dec 30 22:42
90 %
8- Comparing Objects.mp4
Main.java
Point.java
UIControl.java
TextBox.java
Main
main()
Run:
Main
/Library/Java/JavaVirtualMachines/jdk-12.0.1
994
994
Process finished with exit code 0
1: Project
7: Structure
2: Favorites
Ant Build
Maven