Using Classes

Methods

Lecture Contents

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A Basic Method

```
public class HelloWorld {

   public static void main(String[] args) {
      myMethod();
   }

   public static void myMethod( ) {
      System.out.println("Hello World!");
   }
}
```

```
Hello World!
```

My First Method

```
public class HelloWorld {

   public static void main(String[] args) {
      int myNumber = 13;
      System.out.println(myNumber);
      myMethod();
   }

   public static void myMethod( ) {
      System.out.println("Hello World!");
   }
}
```

```
13
Hello World!
```

A Method with One Parameter

```
public class HelloWorld {

   public static void main(String[] args) {
        myMethod("Hello World!");
   }

   public static void myMethod(String s ) {
      System.out.println(s);
      System.out.println(s);
   }
}
```

```
Hello World!
Hello World!
```

Multiple Parameters

```
public class HelloWorld {

    public static void main(String[] args) {
        printTime(3,30);
    }

    public static void printTime(int hour, int min) {
        System.out.println(hour + ":" + min);
    }
}
```

```
3:30
```

Write the method "writeSquare"

```
public class HelloWorld {

   public static void main(String[] args) {
        int i = 3;
        writeSquare(i);
        writeSquare(i+2);
   }

   public static void writeSquare(int x) {
      // TODO: Write the code for this method!!
   }
}
```

```
The square of 3 is 9.
The square of 5 is 25.
```

Write the method “writeSquare”

```
public class HelloWorld {

   public static void main(String[] args) {
        int i = 3;
        writeSquare(i);
        writeSquare(i+2);
   }

   public static void writeSquare(int x) {
      System.out.println("The square of " + x + " is " + x*x + ".");
   }
}
```

```
The square of 3 is 9.
The square of 5 is 25.
```

Method Return Values

```
public class HelloWorld {

   public static void main(String[] args) {
      int i = getFive();
      System.out.println("The method returned " + i + ".");
    }

   public static int getFive() {
      return 5;
   }
}
```

```
The method returned 5.
```

Write the method “getSquare”

```
public class HelloWorld {

   public static void main(String[] args) {
      int i = 3;
      int j = getSquare(i);
      System.out.println("The square of " + i + " is " + j + ".");
    }

   public static int getSquare(int x) {
      // TODO: Write the code for this method!!
   }
}
```

```
The square of 3 is 9.
```

Write the method “getSquare”

```
public class HelloWorld {

   public static void main(String[] args) {
      int i = 3;
      int j = getSquare(i);
      System.out.println("The square of " + i + " is " + j + ".");
    }

   public static int getSquare(int x) {
      return x * x;
   }
}
```

```
The square of 3 is 9.
```

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