Sunday, December 30, 2018 1:51 PM

1Method

0.Open Terminal.
0.Enter mkdir HelloWorld to create a new directory and cd HelloWorld to move into it.
0.Enter touch HelloWorld.java to create an empty Java file.
0.Now enter nano HelloWorld.java to edit the file.
0.Press Control-X then y and Return to save the file and exit Nano.
0.Now compile the program by entering javac HelloWorld.java in Terminal.
0.Enter java HelloWorld to run it.

Method

```
public static void main(String[] args) {
  takeOff();
  fly();
  land();
}

public static void takeOff () {
  pushBackFromGate();
  taxiToRunway();
  increaseSpeedUntilOffGround();
  climbToCruiseAltitude();
}
```

Control flow

```
public static void main(String[] args) {
  System.out.println("main method starting...");
  message1();
  message2();
  System.out.println("...done with main");
}

public static void message1() {
```

```
public static void message1() {
  System.out.println("All of message1.");
}

public static void message2() {
  System.out.println("Start of message2.");
  message1();
  System.out.println("End of message2.");
}
```

Java primitive data types:

Java keywordData TypeExamplesMinMax
intinteger422, -13, 0-2^312^31-1
doublereal number-23.1, 14.56, 9.4e3-1.8x10^-38-1.8x10^38
charone character'A', '1', 'z', '%'NANA
booleantrue or falsetrue, falseNANA
concatenation= add two string

declare

```
dataType variableName = value;

myString = "Hello yourself!";
System.out.println(myString);

public class Song {
   public static void main (String[] args) {
      String line = "This is the chorus";
      System.out.println(line);
      verse();
      System.out.println(line);
   }
   public static void verse() {
      String line = "This is my verse";
      System.out.println(line);
   }
}
```

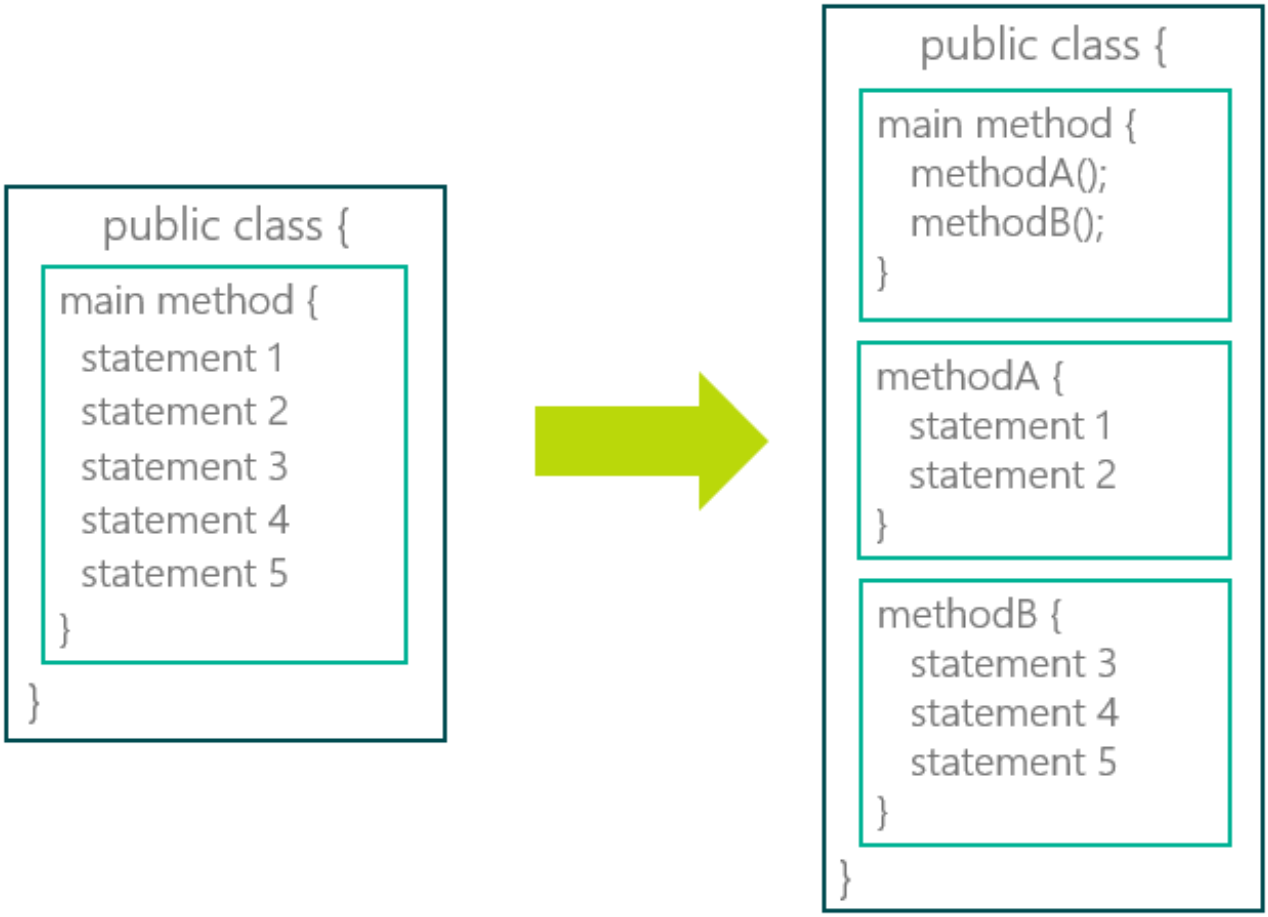
class constants

```
public class myClass {
  public static final double PI = 3.14;
  public static final int MAX_SPEED = 80;
```

```
public static final int MAX_SPEED = 80;
public static final int DAYS_IN_WEEK = 7;

public static void main(String[] args) {
...
```

(int)(10/4.0) 2 takes double result of 2.5 and turns it into an int by dropping the decimal
(int)10/4.0 2.5 Without the parenthesis the 10 is cast to an int, even though it already is. The result is the int 10 / 4.0 who's result is 2.5




```
public MyClass {
  public static void main(String[] args) {
     statements…
  }

  public static void myMethod() {
     statements…
  }
```

```
}
```