November 20, 2021

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PowerAndSqrt (main method only)

```
Lab Activities - Lab Activities (Finals)/src/labAct2Methods/PowerAndSqrt.java - Eclipse IDE
                                                                                                                                             ×
File Edit Source Refactor Navigate Search Project Run Window Help
- -
₽ DowerAndSqrt.java ×
   1 package labAct2Methods;
2 import java.text.DecimalFormat;
3 public class PowerAndSqrt
4 {
5⊖ public static void main(Str
             public static void main(String [] args)
{
                DecimalFormat d = new DecimalFormat("#.00");
double a = 4.0;
System.out.println("The Power value is "+ d.format(Math.pow(a, 2)));
System.out.println("The Squareroot value is " + d.format(Math.sqrt(a)));
  Problems @ Javadoc Declaration Console X
                                                                                                  <terminated> PowerAndSqrt [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Nov 2021, 2:45:59 pm – 2:46:01 pm)
   The Power value is 16.00
The Squareroot value is 2.00
                                        Writable
                                                             Smart Insert
                                                                                13:1:357
```

Border (using separate methods)

```
Lab Activities - Lab Activities (Finals)/src/labAct2Methods/Border.java - Eclipse IDE
                                                                                                        File Edit Source Refactor Navigate Search Project Run Window Help
Q 🖺 🐉
₽ Dorder.java ×
package labAct2Methods;
      public class Border
{
         public static void main(String[] args)
             printBorder();
             System.out.println("Java rocks!");
printBorder();
         public static void printBorder()
{
            int x;
for ( x = 1; x <= 10; x++)
            {
    System.out.print("=");
             System.out.println();
         }
   20 }
                                                                        Problems @ Javadoc Declaration Console X
  <terminated> Border [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Nov 2021, 2:52:05 pm – 2:52:05 pm)
  Java rocks!
                              Writable
                                                             21:1:323
```

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CD (using separate methods with return value)

```
Lab Actitvities - Lab Activities (Finals)/src/labAct2Methods/CD.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Q 🖹 📳
₽ D Border.java D CD.java ×
   1 package labAct2Methods;
        public class CD
{
            public static void main(String[] args)
{
                double diameter = 120.0;
double radius = 0.0;
String output = "";
               radius = diameter / 2.0;
               output += "Circumference is ";
output += solveCircumference(radius);
output += "mm";
    13
14
15
16
17
18
19
20
21
22
23⊖
               output += "\nSurface area of CD is ";
output += solveAreaCD(solveAreaCircle(radius),solveAreaCircle((diameter*0.125)/2.0));
output += "sqr mm";
                System.out.println(output);
            public static double solveCircumference(double rad) {
    24
                return 2.0 * 3.1416 * rad;
    25
26
276
28
29
            public static double solveAreaCircle(double r)
            return 3.1416 * r * r;
            public static double solveAreaCD(double outer, double inner) {
    34
35 }
36
                                                                                             Problems @ Javadoc Declaration Console X
  <terminated> CD [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Nov 2021, 3:08:12 pm – 3:08:13 pm)
  Circumference is 376.992mm
Surface area of CD is 11133.045sqr mm
                                                                              29:31:662
                                      Writable
                                                          Smart Insert
```

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Bonus Activity (ver)

Video Link: https://drive.google.com/file/d/1ZZTM3SnYEP60N9jVymwuz5Ze-lhqbuTy/view?usp=sharing

```
Lab Activities - Lab Activities (Finals)/src/labAct2Methods/PowerAndSqrt1.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
| 🖰 ▼ 🔚 🔞 : 🖳 : 核 ▼ 🔘 ▼ 💁 ▼ া 🐿 🎯 ▼ : 🤔 🔗 ▼ : 🍄 📝 📵 🗐 👖 : 🔄 ▼ ヴ ▼ ヴ ▼ 👉 ▼ 👉 ▼ 📑
                                                                                                                                 Q 🔡 🖏

☑ PowerAndSqrt.java ☑ PowerAndSqrt1.java X ☑ PowerAndSqrt2.java
    package labAct2Methods;
import java.text.DecimalFormat;
public class PowerAndSqrt1
{
H
            public static void main(String[] args)
{
                calculatePower();
calculateSqrt();
            , public static void calculatePower() {
                DecimalFormat d = new DecimalFormat("#.00");
                System.out.println("The Power value is " + d.format(Math.pow(a, 2)));
            public static void calculateSqrt()
{
    15
                DecimalFormat d = new DecimalFormat("#.00");
    19
                double a = 4.0;
System.out.println("The Squareroot value is " + d.format(Math.sqrt(a)));
    21
  Problems @ Javadoc Declaration Console X
                                                                                           <terminated> PowerAndSqrt1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Nov 2021, 4:03:30 pm – 4:03:32 pm)
  The Power value is 16.00
The Squareroot value is 2.00
```

Bonus Activity (ver2)

Video Link: https://drive.google.com/file/d/1HJVjZcRdFc6hMUvQBz9Bkqq2NixXO54/view?usp=sharing

```
Lab Activities - Lab Activities (Finals)/src/labAct2Methods/PowerAndSqrt2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Q B B
₽ PowerAndSqrt2.java X PowerAndSqrt.java
    1 package labAct2Methods;
2 import java.text.DecimalFormat;
3 public class PowerAndSqrt2
            public static void main(String [] args)
                DecimalFormat d = new DecimalFormat("#.00");
double a = 4.0;
                System.out.println("The Power value is " + d.format(calculatePower(a)));
System.out.println("The Squareroot value is " + d.format(calculateSqrt(a)));
            public static double calculatePower(double b)
               return b = Math.pow(b, 2);
             public static double calculateSqrt(double s)
               return s = Math.sqrt(s);
                                                                                          Problems @ Javadoc Declaration Console X
  <terminated> PowerAndSqrt2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (20 Nov 2021, 3:33:52 pm – 3:33:52 pm)
  The Power value is 16.00
The Squareroot value is 2.00
```