COSC 117 Lab 2

Jade Pearl


Exercise 1 (Drawing a rectangle with *):

1. Source code:

```
DrawingRectangle.java ⊠
 1
 2 public class DrawingRectangle {
 3
 4⊖     public static void main(String[] args) {
 5         // TODO Auto-generated method stub
 6         System.out.println("**********");
 7         System.out.println("**********");
 8         System.out.println("**********");
 9
10     }
11
12 }
13 |
```

2. Output:

```
Problems  @ Javadoc  Declaration  Console ⊠
<terminated> DrawingRectangle [Java Application] C:\User
**********
**********
**********
|
```


Exercise 2 (Sales Predictions):

1. Source code

```java
1  import java.util.Scanner;
2
3  public class SalesPredictions {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          Scanner keyboard = new Scanner (System.in);
8          System.out.println("What is the total sales value?");
9          double dollars = keyboard.nextDouble();
10         System.out.println("What percentage of sales is the annual profit?");
11         double percentofSales = keyboard.nextDouble();
12         keyboard.close();
13         double totalprofit = dollars * percentofSales;
14         System.out.println(dollars);
15         System.out.println(" dollars in sales =");
16         System.out.println(totalprofit);
17         System.out.println(" total profit");
18
19      }
20
21  }
22
```

2. Output

Problems   @ Javadoc   Declaration   Console ⌧

<terminated> SalesPredictions [Java Application] C:\Users\jpmd1\D

```
What is the total sales value?
15000
What percentage of sales is the annual profit?

0.13
15000.0
 dollars in sales =
1950.0
 total profit
```

Example 3 (Distance Traveled over time):

1. Source code:

```java
1  import java.util.Scanner;
2
3  public class DistanceTraveled {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          System.out.println("A vehicle traveling at a constant speed of 58 mph results in what distance?");
8          double speed = 58;
9          double timehours1 = 6;
10         double timehours2 = 10;
11         double timehours3 = 15;
12         double distance1 = speed * timehours1;
13         double distance2 = speed * timehours2;
14         double distance3 = speed * timehours3;
15         System.out.println(speed);
16         System.out.println(" mph in 6 hrs=");
17         System.out.println(distance1);
18         System.out.println(" miles traveled");
19         System.out.println(speed);
20         System.out.println(" mph in 10 hrs=");
21         System.out.println(distance2);
22         System.out.println(" miles traveled");
23         System.out.println(speed);
24         System.out.println(" mph in 15 hrs");
25         System.out.println(distance3);
26         System.out.println(" miles traveled");
27
28     }
29
30 }
31
```

2. Output:

Problems  @ Javadoc  Declaration  Console

&lt;terminated&gt; DistanceTraveled [Java Application] C:\Users\jpmd1\Desktop\Programming\eclipse-java-

```
A vehicle traveling at a constant speed of 58 mph results in what distance?
58.0
 mph in 6 hrs=
348.0
 miles traveled
58.0
 mph in 10 hrs=
580.0
 miles traveled
58.0
 mph in 15 hrs
870.0
 miles traveled
```

Example 4 (Miles per gallon converter):

1. Source code:

```java
MilesPerGallon.java ✕
 1 import java.util.Scanner;
 2
 3 public class MilesPerGallon {
 4
 5⊖     public static void main(String[] args) {
 6         // TODO Auto-generated method stub
 7         Scanner keyboard = new Scanner (System.in);
 8         System.out.println("How many miles were driven?");
 9         double miles = keyboard.nextDouble();
10         System.out.println("How many gallons of gas was used?");
11         double gallons = keyboard.nextDouble();
12         keyboard.close();
13         double MPG = miles / gallons;
14         System.out.println(miles);
15         System.out.println(" miles times");
16         System.out.println(gallons);
17         System.out.println(" gallons =");
18         System.out.println(MPG);
19         System.out.println(" mpg");
20
21     }
22
23 }
```

2. Output

```
Problems  @ Javadoc  Declaration  Console ✕
<terminated> MilesPerGallon [Java Application] C:\Users\jp
How many miles were driven?
125
How many gallons of gas was used?
4
125.0
 miles times
4.0
 gallons =
31.25
 mpg
```

Example 5 (Celcius to Farenheit Converter):

1. Source code:

```java
1  import java.util.Scanner;
2
3  public class CelciustoFarenheit {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          Scanner keyboard = new Scanner (System.in);
8          System.out.println("What is the temperature in Celcius?");
9          double C = keyboard.nextDouble();
10         keyboard.close();
11         double F = 9/5.0 * C + 32;
12         System.out.println(C);
13         System.out.println(" degrees Celcius =");
14         System.out.println(F);
15         System.out.println(" degrees Farenheit");
16
17     }
18
19 }
20
```

2. Output:

Problems @ Javadoc 🔖 Declaration 🖥 Console ⊠

<terminated> CelciustoFarenheit [Java Application] C:\Users\j

```
What is the temperature in Celcius?
25
25.0
 degrees Celcius =
77.0
 degrees Farenheit
```