Jade Pearl

Example 1: Fuel Economy to Fuel Consumption:

1. Source Code

```
1 import java.util.Scanner;
  3 public class FuelEcoConsumption {
  4
        public static void main(String[] args) {
a 6
           // TODO Auto-generated method stub
  7
           Scanner keyboard = new Scanner (System.in);
  8
           System.out.println("How many miles per gallon?");
 9
           double mpg = keyboard.nextDouble();
 10
           keyboard.close();
           double consumption = 235.214583 / mpg;
 11
 12
           System.out.printf("%.3f MPG is equivalent to %.3f liters per 100km.", mpg, consumption);
 13
 14
        }
 15
 16 }
17
```

2. Output



Example 2: Volume of Cuboid:

1. Source Code

```
☑ VolumeCuboid.java 
☒
 1 import java.util.Scanner;
 2
 3 public class VolumeCuboid {
 4
 5⊝
        public static void main(String[] args) {
            // TODO Auto-generated method stub
 6
 7
            Scanner keyboard = new Scanner (System.in);
            System.out.println("What is the length of the cuboid?");
 8
            double 1 = keyboard.nextDouble();
 9
            System.out.println("What is the breadth of the cuboid?");
10
            double b = keyboard.nextDouble();
11
            System.out.println("What is the height of the cuboid?");
12
13
            double h = keyboard.nextDouble();
14
            keyboard.close();
            double v = 1 * b * h;
15
16
            System.out.printf("The cuboid has a volume of %.4f", v);
17
18
        }
19
20 }
```

2. Output

```
Problems @ Javadoc Declaration Console <a href="Console"><a href="
```

Example 3: Area Difference:

1. Source Code

```
☑ AreaDifference.java ≅
 1 import java.util.Scanner;
 3 public class AreaDifference {
 5⊜
        public static void main(String[] args) {
 6
            // TODO Auto-generated method stub
 7
           Scanner keyboard = new Scanner (System.in);
            System.out.println("Give the side length of square A");
 9
            double sA = keyboard.nextDouble();
10
            System.out.println("Give the side length of square B");
11
            double sB = keyboard.nextDouble();
12
            keyboard.close();
13
            double areaA = Math.pow(sA, 2);
14
            double areaB = Math.pow(sB, 2);
15
            double areaDifference = areaA - areaB;
16
            System.out.printf("The area difference of square A minus square B is %.4f", areaDifference);
17
18
        }
19
20 }
```

2. Output

```
Problems @ Javadoc ☑ Declaration ☑ Console ☒
<terminated > AreaDifference [Java Application] C:\Users\jpmd1\Desktop\Program
Give the side length of square A

Give the side length of square B

40

The area difference of square A minus square B is -639.0000
```

Example 4: Restaurant Bill

1. Source Code

```
☑ RestaurantBill.java ≅
 1 import java.util.Scanner;
3 public class RestaurantBill {
  5⊜
         public static void main(String[] args) {
             // TODO Auto-generated method stub
              Scanner keyboard = new Scanner (System.in);
 8
              System.out.println("What was the charge of the meal?");
              double meal = keyboard.nextDouble();
             keyboard.close();
11
12
13
14
15
16
17
18
19 }
              double tax = (meal * 0.0675);
             double tip = ((meal + tax) * 0.20);
double total = meal + tax + tip;
System.out.printf("Your meal of %.2f with a tax of 6.75 percent and a tip of 20 percent has a total charge of %.2f",
                       meal, total);
         }
```

2. Output

Problems @ Javadoc □ Declaration □ Console □

<terminated > RestaurantBill [Java Application] C:\Users\jpmd1\Desktop\Programming\eclipse-java-2021-06-R-win32-x86_64\eclipse
What was the charge of the meal?

20.06

Your meal of 20.06 with a tax of 6.75 percent and a tip of 20 percent has a total charge of 25.70

Example 5: Total Purchase

1. Source Code

```
☑ TotalPurchase.java 
☒
 1
  2 public class TotalPurchase {
 3
 4⊖
        public static void main(String[] args) {
 5
            // TODO Auto-generated method stub
  6
            double item1 = 15.95;
 7
            double item2 = 24.95;
 8
            double item3 = 6.95;
            double item4 = 12.95;
 9
10
            double item5 = 3.95;
11
            double sub = item1 + item2 + item3 + item4 + item5;
12
            double tax = sub * 0.07;
13
            double total = sub + tax;
14
            System.out.println("item 1 = $15.95");
15
            System.out.println("item 2 = $24.95");
16
            System.out.println("item 3 = $6.95");
17
            System.out.println("item 4 = $12.95");
18
            System.out.println("item 5 = $3.95");
19
            System.out.printf("Subtotal = $ %.2f", sub);
20
            System.out.println();
21
            System.out.printf("Tax = $ %.2f", tax);
22
            System.out.println();
23
            System.out.printf("Total Purchase = $ %.2f", total);
24
25
        }
26
27 }
28
   2. Output
🖳 Problems 🏿 @ Javadoc 🖳 Declaration 📮 Console 🖾
<terminated > TotalPurchase [Java Application] C:\Users\j
item 1 = $15.95
item 2 = $24.95
item 3 = $6.95
item 4 = $12.95
item 5 = $3.95
Subtotal = $64.75
Tax = $4.53
Total Purchase = $ 69.28
```