

King Saud University
College of Computer and Information Systems, Department of Computer Science
CSC 111: Java Programming-I, Semester I - 2014
Lab #7 Answers

[Exercise 1]

Lab7_1.java

```
import java.util.Scanner;
public class Lab7_1 {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        System.out.println("Choose from the menu:-");
        System.out.println("1- Print my Name.");
        System.out.println("2- Print my Student ID.");
        System.out.println("3- Print my Department name.");
        System.out.println("=====");
        System.out.print("Answer: ");
        switch (in.nextInt()){
            case 1: System.out.println("My Name is Marwan.");break;
            case 2: System.out.println("My Student ID is 4330000000");break;
            case 3: System.out.println("My Department name is Computer
Science.");break;
            default: System.out.println("ERROR: bad input.");break;
        }
    }
}
```

[Exercise 2]

Rectangle.java

```
public class Rectangle {  
    public double widthKM;  
    public double lengthKM;  
    public double widthMiles;  
    public double lengthMiles;  
}
```

Lab7_2.java

```
import java.util.Scanner;  
public class Lab7_2 {  
    public static void main(String[] args) {  
        Scanner in = new Scanner(System.in);  
        Rectangle r = new Rectangle();  
        System.out.println("Enter the Rectangle's width in kilometer: ");  
        r.widthKM = in.nextDouble();  
        System.out.println("Enter the Rectangle's length in kilometer: ");  
        r.lengthKM = in.nextDouble();  
        r.lengthMiles = r.lengthKM * 0.621371;  
        r.widthMiles = r.widthKM * 0.621371;  
        System.out.println("Choose from the menu:-");  
        System.out.println("1- Rectangle's Area in Square kilometer");  
        System.out.println("2- Rectangle's Perimeter in kilometer");  
        System.out.println("3- Rectangle's Area in Square Miles");  
        System.out.println("4- Rectangle's Perimeter in Miles");  
        System.out.println("=====");  
        System.out.print("Answer: ");  
        switch (in.nextInt()) {  
            case 1:  
                double AreaInKM = r.lengthKM * r.widthKM;  
                System.out.println("Rectangle Area in Square kilometer = " +  
                    AreaInKM);
```

```
break;
case 2:
double PerimeterInKM = 2 * (r.lengthKM + r.widthKM);
System.out.println("Rectangle Perimeter in kilometer = " +
PerimeterInKM);
break;
case 3:
double AreaInMiles = r.lengthMiles * r.widthMiles;
System.out.println("Rectangle Area in Square Miles = " +
AreaInMiles);
break;
case 4:
double PerimeterInMiles = 2 * (r.lengthMiles + r.widthMiles);
System.out.println("Rectangle Perimeter in Miles = " +
PerimeterInMiles);
break;
default:
System.out.println("ERROR: bad input.");
break;
}
}
}
```