WEEK 3

1. Write a java program to add the two numbers.

week3_1.java

```java
public class week3_1 {
    public static void main(String[] args) {
        int a = 10, b = 20;
        int c = a+b;
        System.out.println("Sum : " +c);
    }
}

```

```
Sum : 30

Process finished with exit code 0
```

2. Write a java program to multiply two floating numbers.

week3_1.java week3_2.java

```java
public class week3_2 {
    public static void main(String[] args) {
        float a = 1.5F, b = 2.5F;
        float c = a*b;
        System.out.println("Product : " +c);
    }
}

```

```
Product : 3.75

Process finished with exit code 0
```

3. Write a java program to display a cube of a number.

WEEK 3

week3_1.java week3_2.java week3_3.java

```java
public class week3_3 {
    public static void main(String[] args) {
        int a = 5;
        System.out.println("Cube of " +a+ " = " + a*a*a);
    }
}
```

```
Cube of 5 = 125

Process finished with exit code 0
```

4. Write a Java program that takes three numbers as input to calculate and print the average of the numbers.

week3_1.java week3_2.java week3_3.java week3_4.java

```java
import java.util.Scanner;

public class week3_4 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a, b, c;
        System.out.println("Enter three numbers :");
        a = sc.nextInt();
        b = sc.nextInt();
        c = sc.nextInt();
        double avg = (a+b+c)/3.0;
        System.out.println("Average = "+avg);
    }
}
```

```
Enter three numbers :
5
10
15
Average = 10.0
```

5. Write a Java program to compute the distance between two points.

WEEK 3

week3_1.java | week3_2.java | week3_3.java | week3_4.java | week3_5.java

```java
import java.util.Scanner;

public class week3_5 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        double x1, y1;
        double x2, y2;
        System.out.println("Enter x1 and y1 :");
        x1 = sc.nextDouble();
        y1 = sc.nextDouble();
        System.out.println("Enter x2 and y2 :");
        x2 = sc.nextDouble();
        y2 = sc.nextDouble();
        double dis = Math.sqrt(Math.pow(x2-x1, 2) + Math.pow(y2-y1, 2));
        System.out.printf("Distance between %.2f, %.2f and %.2f, %.2f is %.2f",x1,y1,x2,y2,dis);
    }
}
```

```
Enter x1 and y1 :
-3
2
Enter x2 and y2 :
3
5
Distance between -3.00, 2.00 and 3.00, 5.00 is 6.71
```

6. Write a Java program to swap two numbers using a temporary variable.

week3_6.java

```java
public class week3_6 {
    public static void main(String[] args) {
        int a = 5, b = 10;
        System.out.printf("a = %d and b = %d\n", a, b);
        int temp = a;
        a = b; b = temp;
        System.out.printf("a = %d and b = %d", a, b);
    }
}
```

```
a = 5 and b = 10
a = 10 and b = 5
Process finished with exit code 0
```

WEEK 3

7. Write a Java program to calculate the area of a rectangle given its length and breadth.

week3_6.java week3_7.java

```java
import java.util.Scanner;

public class week3_7 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        double l,b;
        System.out.println("Enter length and breadth :");
        l = sc.nextDouble();
        b = sc.nextDouble();
        System.out.println("Area = " + l*b);
    }
}
```

```
Enter length and breadth :
5
10
Area = 50.0
```

8. Write a Java program to convert temperature from Celsius to Fahrenheit.

week3_6.java week3_7.java week3_8.java

```java
import java.util.Scanner;

public class week3_8 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter Temp in Celsius : ");
        double temp = sc.nextDouble();
        System.out.println("Fahrenheit = " + (temp*9/5.0+32));
    }
}
```

```
Enter Temp in Celsius :
100
Fahrenheit = 212.0
```

WEEK 3

9. Write a Java program that takes two integer inputs and computes their remainder and quotient.

week3_6.java | week3_7.java | week3_8.java | week3_9.java

```java
import java.util.Scanner;

public class week3_9 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a,b;
        System.out.println("Enter a and b:");
        a = sc.nextInt();
        b = sc.nextInt();
        System.out.println("a/b = "+ a/b);
        System.out.println("a%b = "+ a%b);
    }
}

```

```
Enter a and b:
16
3
a/b = 5
a%b = 1
```

10. Write a Java program to find the circumference of a circle given its radius.

week3_6.java | week3_7.java | week3_8.java | wee

```java
import java.util.Scanner;

public class week3_10 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the radius :");
        double r = sc.nextDouble();
        System.out.println("Area = "+ 3.14*r*r);
    }
}

```

```
Enter the radius :
7
Area = 153.86
```