

WEEK 3

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

```
week3_1.java ×
1 ▶  public class week3_1 {
2 ▶      public static void main(String[] args) {
3          int a = 10, b = 20;
4          int c = a+b;
5          System.out.println("Sum : " +c);
6      }
7  }
8
```

Sum : 30
Process finished with exit code 0

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

```
week3_1.java    week3_2.java ×
1 ▶  public class week3_2 {
2 ▶      public static void main(String[] args) {
3          float a = 1.5F, b = 2.5F;
4          float c = a*b;
5          System.out.println("Product : " +c);
6      }
7  }
8
```

Product : 3.75
Process finished with exit code 0

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

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```
week3_1.java week3_2.java week3_3.java x
1 ► public class week3_3 {
2 ►     public static void main(String[] args) {
3         int a = 5;
4         System.out.println("Cube of " +a+ " = " + a*a*a);
5     }
6 }
7 |
```

```
Cube of 5 = 125
Process finished with exit code 0
```

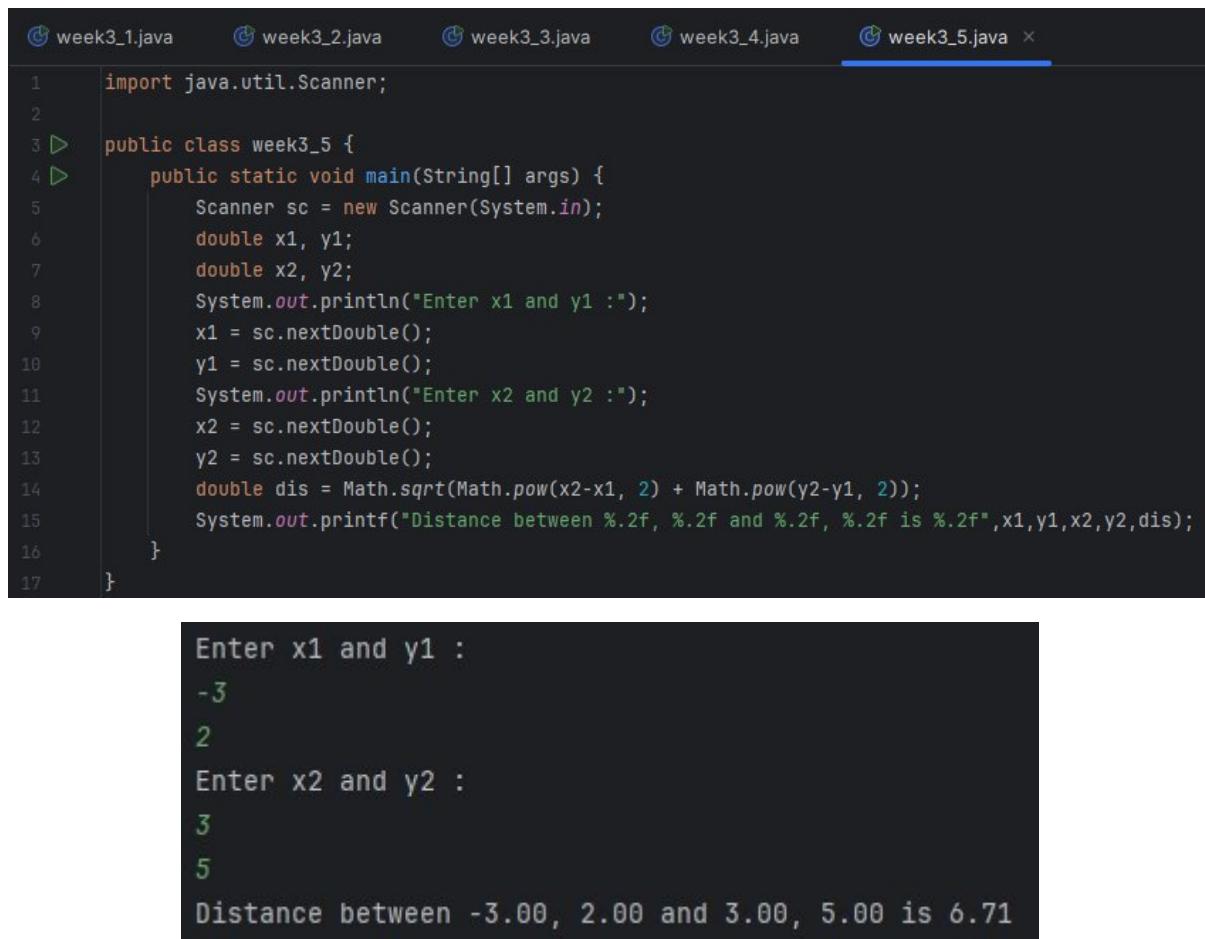
4. Write a Java program that takes three numbers as input to calculate and print the average of the numbers.

```
week3_1.java week3_2.java week3_3.java week3_4.java x
1 import java.util.Scanner;
2
3 ► public class week3_4 {
4 ►     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int a, b, c;
7         System.out.println("Enter three numbers :");
8         a = sc.nextInt();
9         b = sc.nextInt();
10        c = sc.nextInt();
11        double avg = (a+b+c)/3.0;
12        System.out.println("Average = "+avg);
13    }
14 }
15 |
```

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

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

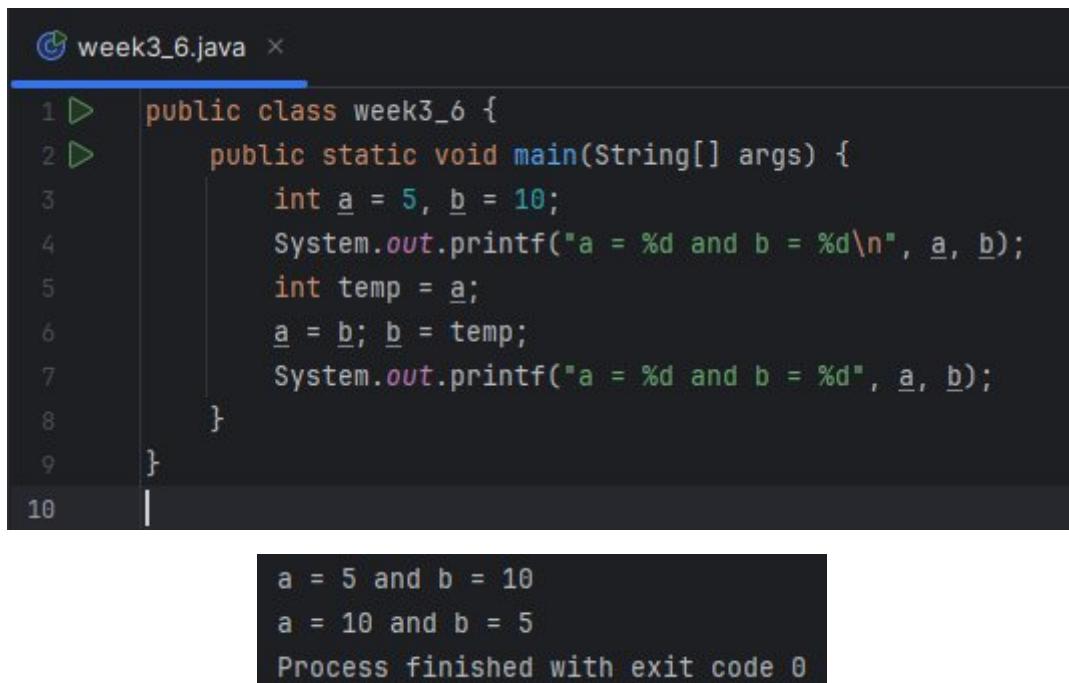
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```
1 import java.util.Scanner;
2
3 public class week3_5 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         double x1, y1;
7         double x2, y2;
8         System.out.println("Enter x1 and y1 :");
9         x1 = sc.nextDouble();
10        y1 = sc.nextDouble();
11        System.out.println("Enter x2 and y2 :");
12        x2 = sc.nextDouble();
13        y2 = sc.nextDouble();
14        double dis = Math.sqrt(Math.pow(x2-x1, 2) + Math.pow(y2-y1, 2));
15        System.out.printf("Distance between %.2f, %.2f and %.2f, %.2f is %.2f", x1, y1, x2, y2, dis);
16    }
17 }
```

```
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.

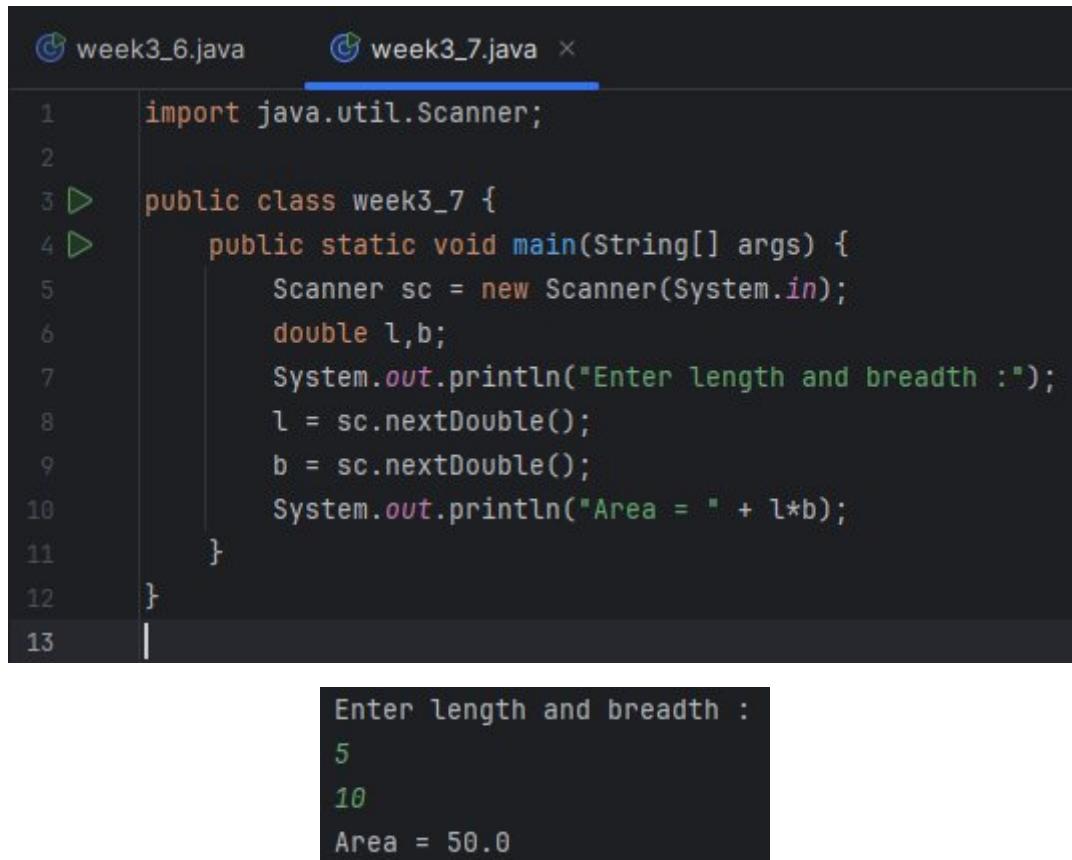


```
1 public class week3_6 {
2     public static void main(String[] args) {
3         int a = 5, b = 10;
4         System.out.printf("a = %d and b = %d\n", a, b);
5         int temp = a;
6         a = b; b = temp;
7         System.out.printf("a = %d and b = %d", a, b);
8     }
9 }
```

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

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



```
week3_6.java  week3_7.java  week3_8.java
1 import java.util.Scanner;
2
3 public class week3_7 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         double l,b;
7         System.out.println("Enter length and breadth :");
8         l = sc.nextDouble();
9         b = sc.nextDouble();
10        System.out.println("Area = " + l*b);
11    }
12 }
13 |
```

```
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
1 import java.util.Scanner;
2
3 public class week3_8 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter Temp in Celsius : ");
7         double temp = sc.nextDouble();
8         System.out.println("Fahrenheit = " + (temp*9/5.0+32));
9     }
10 }
11 |
```

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

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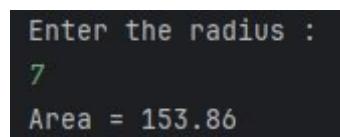
- 9.** Write a Java program that takes two integer inputs and computes their remainder and quotient.

```
1 import java.util.Scanner;
2
3 public class week3_9 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         int a,b;
7         System.out.println("Enter a and b:");
8         a = sc.nextInt();
9         b = sc.nextInt();
10        System.out.println("a/b = "+ a/b);
11        System.out.println("a%b = "+ a%b);
12    }
13 }
14
```

```
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.

```
1 import java.util.Scanner;
2
3 public class week3_10 {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.println("Enter the radius :");
7         double r = sc.nextDouble();
8         System.out.println("Area = "+ 3.14*r*r);
9     }
10 }
11
```



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