

## Java Programming Codes

### 1. Welcome Code

```
public class Welcome
{
    // main is the Declaration of the Main Method inside a class
    & String args refers to the input argument of parameter inside
    the main method
    public static void main(String[] args)
    {
        System.out.println("Welcome to Java Programming");
    }
}
```

### 2. Ram Drives a car at 150kmph covering a distance of 600km. Using Java Program Calculate the time taken by ram to cover the distance ?

```
public class Driving {
    public static void main(String[] args){
        int speed = 150;
        int distance = 600;
        int time = distance / speed;
        System.out.println("Distance covered by Ram is : " + time
+ "hrs");
    }
}
```

### 3. Mr. Gunashekar went for a walk on a rectangular garden that had a length of 20cm and a breadth 10cm. Help him to calculate the total distance covered by him during his walk everyday.

```
public class Walking {
    public static void main(String[] args){
        int length = 20;
        int breadth = 10;
        int area = length * breadth;
        int perimeter = 2*(length + breadth);

        System.out.println("Perimeter of the given Garden which
gunashekar walked is : " + perimeter);
        System.out.println("Area of the given Garden which
gunashekar walked is : " + area);
    }
}
```

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### 4. How to take user input Using Scanner Class in Java:

- a. Package - import java.util.\*; // Util Stands for utilities & there are many utilities
- b. **Scanner sc = new Scanner(System.in)**
- c. Scanner - name of the class , sc means object of the class, System.in means system is taking the input from the user & **in** is the object
- d. int n = sc.nextInt(); // nextInt() is a method
- e. float y = sc.nextFloat();
- f. double k = sc.nextDouble();
- g. string u = sc.next();

### 5. To find a square root of a given number.

```
package Day_2;

import java.util.Scanner;

public class SquareRoot {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the number to be squared :
");
        int n = sc.nextInt();

        int square = n * n;
        System.out.println("The Square Root of " + n + " is
"+ square);
    }
}
```

### 6. Arithmetic operations using Java.

```
package Day_2;

import java.util.Scanner;

public class Operations {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the First Number : ");
        int num1 = sc.nextInt();
        System.out.print("Enter the Second Number : ");
        int num2 = sc.nextInt();

        int add = num1 + num2;
        int sub = num1 - num2;
        float div = (float) num1 / num2;
        int mul = num1 * num2;
    }
}
```

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```
        int mod = num1 % num2;

        System.out.println("Addition of " + num1 + " and "+
num2 + " is " + add);
        System.out.println("Difference of " + num1 + " and "+
num2 + " is " + sub);
        System.out.println("Multiplication of " + num1 + "
and "+ num2 + " is " + mul);
        System.out.println("Division of " + num1 + " and "+
num2 + " is " + div);
        System.out.println("Modulus of " + num1 + " and "+
num2 + " is " + mod);
    }
}
```

### 7. Arc Length in Java.

```
package Day_2;

import java.util.Scanner;

public class ArcLength {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the Radius of the Circle :
");
        int radius = sc.nextInt();
        System.out.print("Enter the Center Angle in Radius :
");
        int angle = sc.nextInt();

        int arc_length = radius * angle;
        System.out.println("Arc Lenght of the Circle is : " +
arc_length + " cms");
    }
}
```

### 8. Random Number Generation in Java.

```
package Day_2;

import java.util.Random;
import java.util.Scanner;

public class RandomNum {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the range to get Random
Numbers : ");
        int range = sc.nextInt();
```

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```
        Random rand = new Random();
        int random = rand.nextInt(range);
        System.out.println("Randomly Generated Value in the
range of " + range + " is " + random);
    }
}
```

### 9. Welcome message with your Name in Java using Scanner Class.

```
package Day_2;

import java.util.Scanner;

public class WelcomingUser {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter your Name : ");
        String user = sc.next();

        System.out.println("Hey!! " + user + ", Welcome to
the Technical Training Program.");
    }
}
```