

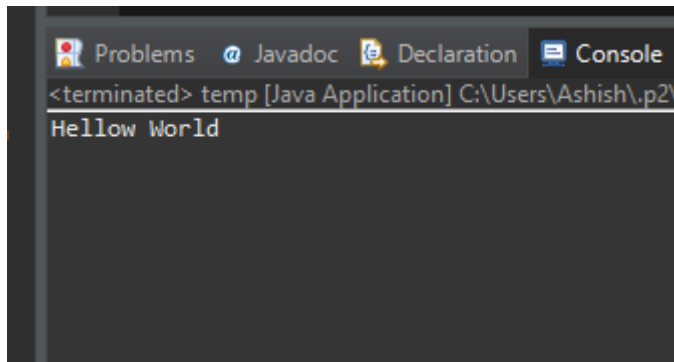
Lab 1

1. Write a Java program to print "Hello, World!" to the console.

Code :

```
package hellow;  
public class HellowWorld  
{  
    public static void main(String args[])  
    {  
        System.out.println("Hellow World");  
    }  
}
```

Output :

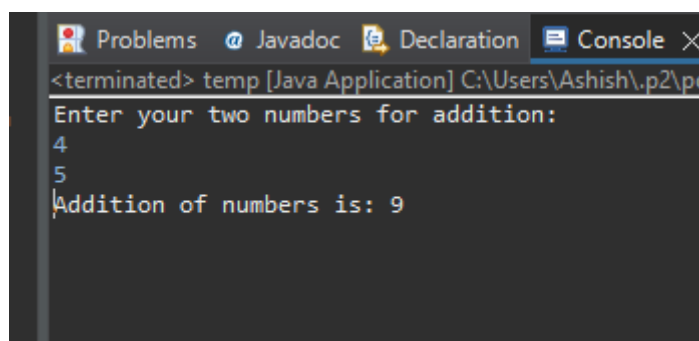


2. Write a program to find the sum of two numbers entered by the user.

Code :

```
package hellow;  
import java.util.Scanner;  
class Add {  
    public int add(int c, int d) {           //creating class for addition  
        return c + d;  
    }  
}  
public class TwoNumberAdd {  
    public static void main(String[] args) {  
        Add addition = new Add();           // creating object of class add  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter your two numbers for addition:");  
        int c = sc.nextInt();  
        int d = sc.nextInt();  
        System.out.println("Addition of numbers is: " + addition.add(c, d));  
    }  
}
```

Output :

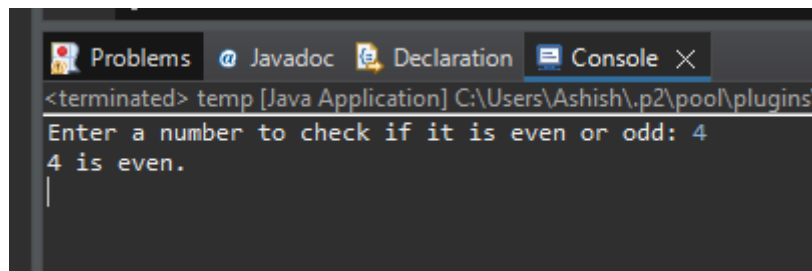


3. Write a Java program to check whether a given number is even or odd.

Code :

```
package hellow;
import java.util.Scanner;
public class EvenOdd{
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number to check if it is even or odd: ");
        int a = scanner.nextInt();
        if (a % 2 == 0) {                // getting modulo for get even number
            System.out.println(a + " is even.");
        } else {
            System.out.println(a + " is odd.");
        }
    }
}
```

Output :



```
<terminated> temp [Java Application] C:\Users\Ashish\.p2\pool\plugins\
Enter a number to check if it is even or odd: 4
4 is even.
```

4. Write a java program to find greatest of 3 numbers.

Code :

```
package hellow;
import java.util.*;

public class GraterInThree {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int arr [] = new int[3];        // using array for get 3 number

        System.out.println("Enter your 3 number : ");

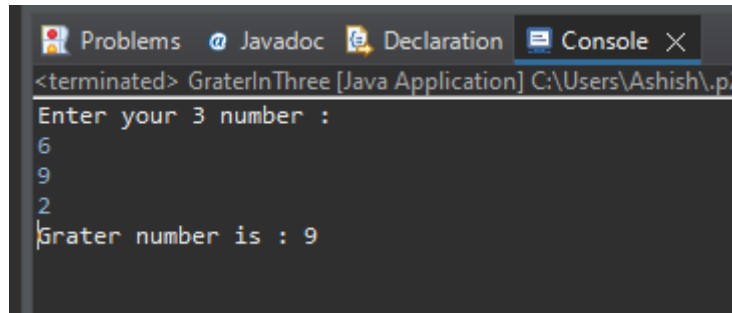
        for(int i=0;i < arr.length;i++) { //getting input on each index by loop
            arr [i] = sc.nextInt();
        }

        int grater = arr[0];            // starting with index of zero
        for(int i=0;i<arr.length;i++) {
            if (arr[i]> grater) {        // compareing each value by using for loop
                grater = arr[i];
            }
        }

        System.out.println("Grater number is : "+ grater);    //printing grater number
        sc.close();
    }
}
```

```
}  
  
}
```

Output :



```
<terminated> GraterInThree [Java Application] C:\Users\Ashish\p...  
Enter your 3 number :  
6  
9  
2  
Grater number is : 9
```

5. Write a program to implement a basic calculator that takes input and evaluates it.
Code :

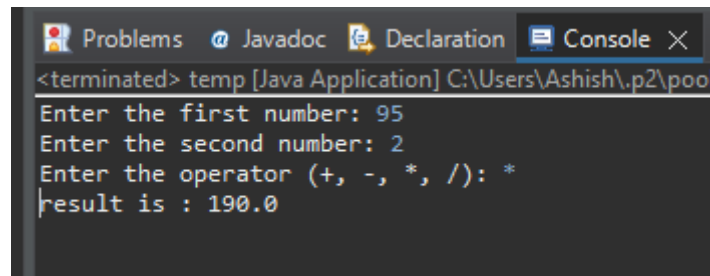
```
package hellow;  
  
import java.util.Scanner;  
  
public class Calculator {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
  
        System.out.print("Enter the first number: ");  
        double num1 = scanner.nextDouble();  
  
        System.out.print("Enter the second number: ");  
        double num2 = scanner.nextDouble();  
  
        System.out.print("Enter the operator (+, -, *, /): ");  
        char operator = scanner.next().charAt(0);  
  
        double result = 0;  
        //its basic calculator thats why using if condition insted of switch  
  
        if (operator == '+') {  
            result = num1 + num2;  
        } else if (operator == '-') {  
            result = num1 - num2;  
        } else if (operator == '*') {  
            result = num1 * num2;  
        } else if (operator == '/') {  
            result = num1 / num2;  
        }  
        System.out.println("result is : "+ result);  
    }  
}
```

```

        scanner.close();
    }
}

```

Output :



```

<terminated> temp [Java Application] C:\Users\Ashish\.p2\pool
Enter the first number: 95
Enter the second number: 2
Enter the operator (+, -, *, /): *
result is : 190.0

```

6. Write a Java program to check if a given number is prime or not.

Code :

```

package hellow;

import java.util.Scanner;

public class PrimeCheack {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int number = scanner.nextInt();

        if (isPrime(number)) {
            System.out.println(number + " is a prime number.");
        } else {
            System.out.println(number + " is not a prime number.");
        }
        scanner.close();
    }

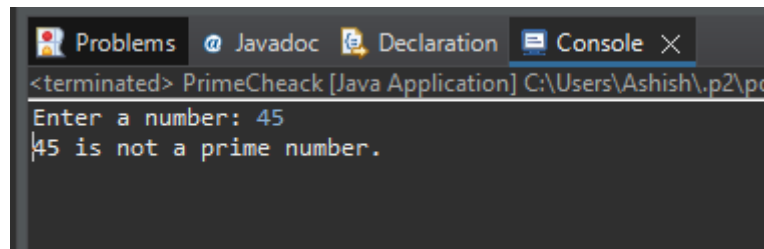
    public static boolean isPrime(int num) {
        // Numbers less than or equal to 1 are not prime
        if (num <= 1) {
            return false;
        }
        // Checking for factors from 2 up to the square root of num
        for (int i = 2; i <= Math.sqrt(num); i++) {
            if (num % i == 0) {
                return false;
            }
        }

        return true;
    }
}

```

```
}
```

Output :



```
<terminated> PrimeCheck [Java Application] C:\Users\Ashish\.p2\poc
Enter a number: 45
45 is not a prime number.
```

7.Create a Java program that compares two numbers and prints the larger one..

Code :

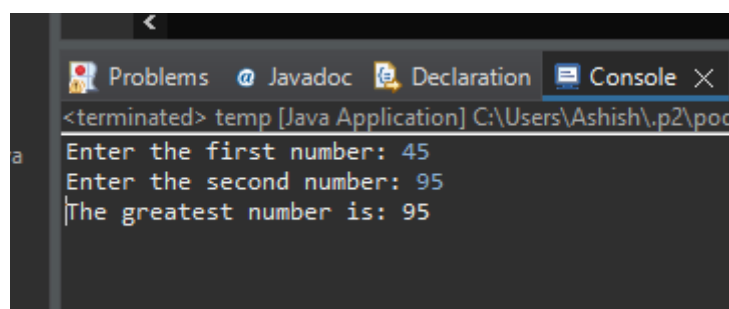
```
package hellow;
import java.util.Scanner;
class NumberComparer {
    public int findGreatest(int a, int b) {
        if (a > b) {
            return a;
        } else {
            return b;
        }
    }
}
public class temp {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        NumberComparer comparer = new NumberComparer();

        System.out.print("Enter the first number: ");
        int number1 = scanner.nextInt();

        System.out.print("Enter the second number: ");
        int number2 = scanner.nextInt();

        int greatest = comparer.findGreatest(number1, number2);
        System.out.println("The greatest number is: " + greatest);
    }
}
```

Output :



```
<terminated> temp [Java Application] C:\Users\Ashish\.p2\poc
Enter the first number: 45
Enter the second number: 95
The greatest number is: 95
```

8. Write a Java program that takes an age input from the user and determines if they are eligible to vote (considering the legal voting age).

Code:

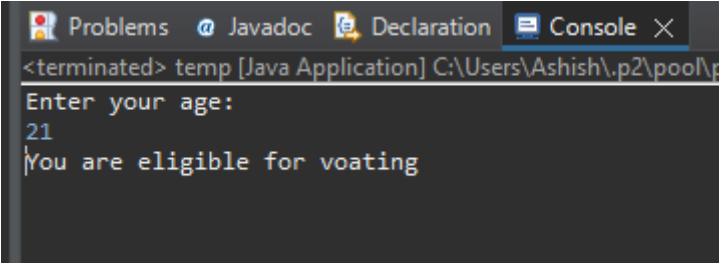
```
package hellow;
import java.util.Scanner;
public class VoatingCheack {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter your age: ");
        int age = sc.nextInt();

        if (age == 18) {
            System.out.println("make your voter id you can vote");
        }
        else if (age < 18) {
            System.out.println("You are not eligible for voating");
        } else if (age > 18) {
            System.out.println("You are eligible for voating");
        } else {
            System.out.println("inter valid value");
        }

        sc.close();
    }
}
```

output:

A screenshot of a Java IDE's console window. The window has tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is active, showing the program's execution. The text in the console is: '<terminated> temp [Java Application] C:\Users\Ashish\p2\pool\p', 'Enter your age:', '21', and 'You are eligible for voating'. The input '21' is shown in blue, indicating it was entered by the user.