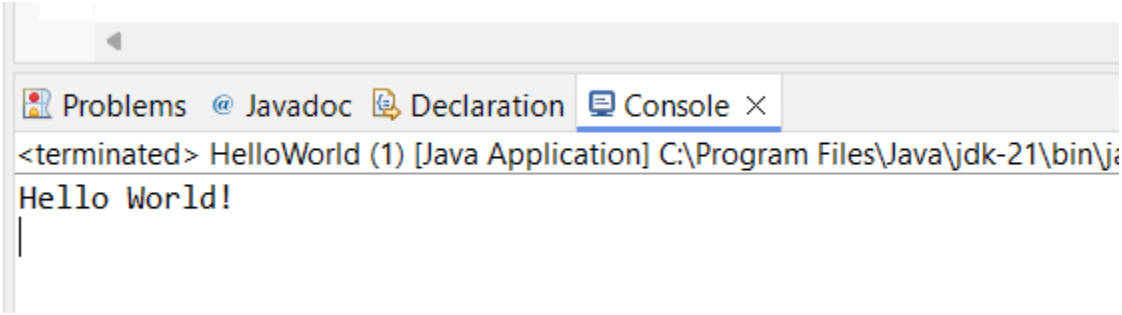
1.Write a Java program to print "Hello, World!" to the console.

Code:-

```
package Assignment;

public class HelloWorld {

	public static void main(String[] args) {
		System.out.println("Hello World!");
	}

}
```

Output:-

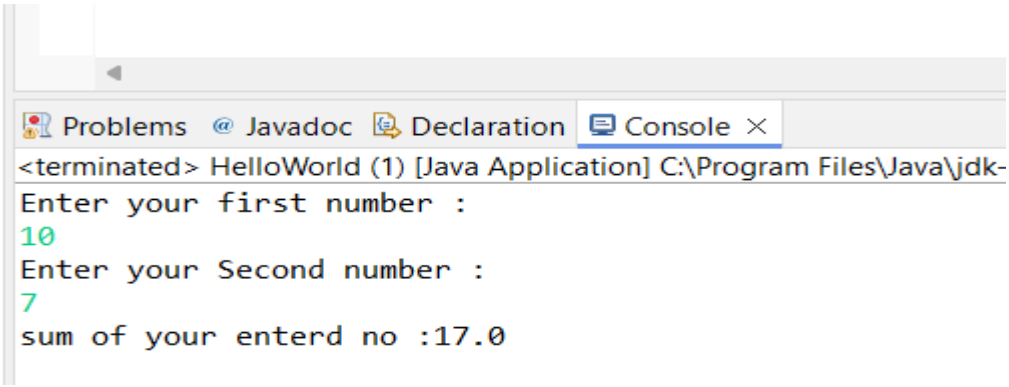


2.Write a program to find the sum of two numbers entered by the user.

Code:-

```
package Assignment;
import java.util.Scanner;    // package which is use to take input by user.
public class SumOfTwo {

	public static void main(String[] args) {
		System.out.println("Enter your first number :");
		Scanner sc=new Scanner(System.in);     //object declaration
		double fn=sc.nextDouble();

		System.out.println("Enter your Second number :");
		Scanner sca=new Scanner(System.in);
		double sn=sca.nextDouble();

		double sum=fn+sn;
		System.out.println("sum of your enterd no :"+sum);   //to Display the
sum.
	}
}
```

Output:-

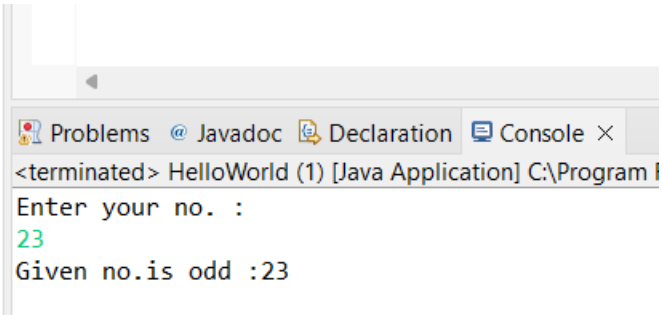


3.Write a Java program to check whether a given number is even or odd.

Code:-

```
package Assignment;
import java.util.Scanner;     // package which is use to take input by user.
public class HelloWorld {

	public static void main(String[] args) {
		System.out.println("Enter your no. :");
		Scanner number=new Scanner(System.in); //object declaration
		int GivenNumber=number.nextInt();

		if(GivenNumber %2 ==0)  //logic for even no.
		{
			System.out.println("Given no.is even :"+GivenNumber);}  //to
print even no.
		else
		{
			System.out.println("Given no.is odd :"+GivenNumber);  //to print
odd no.
		}
	}
}
```

Output:-

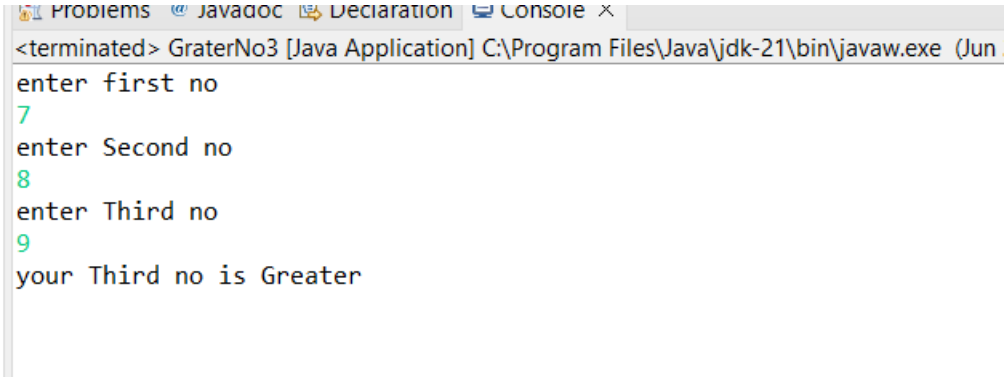


4.Write a java program to find greatest of 3 numbers.

Code:-

```
package WorksOfClass;
import java.util.Scanner;  //use to take input from user.
public class GraterNo3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		System.out.println("enter first no");
		Scanner sc1=new Scanner(System.in); //object declaration
		int fn=sc1.nextInt();  // call the object
		System.out.println("enter Second no");

		int Sn=sc1.nextInt();
		System.out.println("enter Third no");

		int Tn=sc1.nextInt();
		if(fn>Sn && fn>Tn) {  //logic to compare no.
			System.out.println("your First no is Greater");  //to print 1st
no.
		}
		else if(Sn>fn && Sn>Tn) {
			System.out.println("your Second no is Greater"); //to print 2nd
no.
		}
		if(Tn>Sn && Tn>fn) {
			System.out.println("your Third no is Greater"); //to print 3rd
no.
		}
		sc1.close();
	}

}
```

Output:-

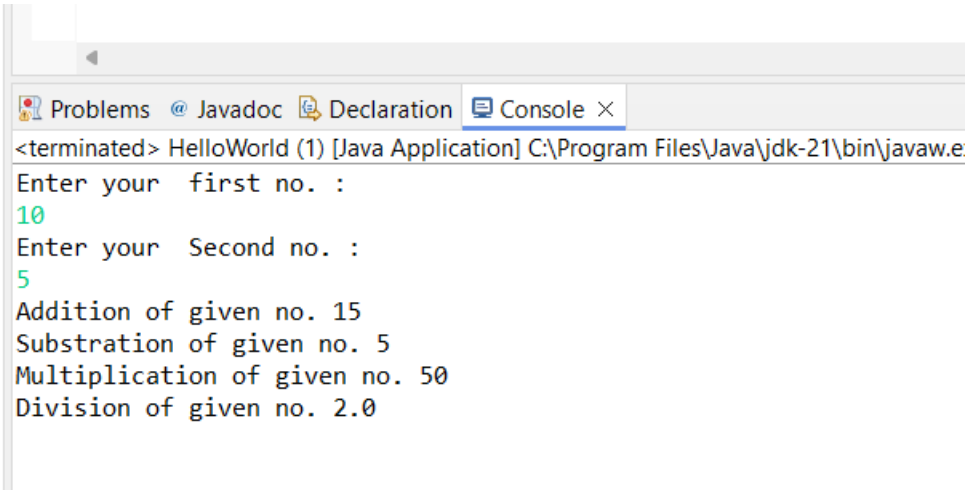


5.Write a program to implement a basic calculator that takes input and evaluates it.

Code:-

```
package Assignment;
import java.util.Scanner;    // package which is use to take input by user.
public class HelloWorld {

	public static void main(String[] args) {
		System.out.println("Enter your  first no. :");
		Scanner number=new Scanner(System.in); //object declaration
		int num1=number.nextInt();

		System.out.println("Enter your  Second no. :");
		int num2=number.nextInt();
		int sum= num1+num2;  //addition logic
		int sub=num1-num2;   //substraction logic
		int mul=num1*num2;  //multiplication logic
		float div=num1/num2;  //division logic

		System.out.println("Addition of given no. "+ sum);
		System.out.println("Substration of given no. "+ sub);
		System.out.println("Multiplication of given no. "+ mul);
		System.out.println("Division of given no. "+ div);

	}
}
```

Output:-

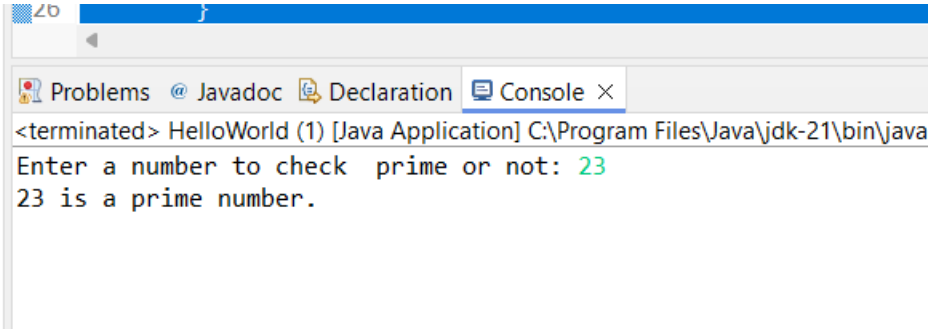


6.Write a Java program to check if a given number is prime or not.

Code:-

```
package Assignment;
import java.util.Scanner;     // package which is use to take input by user.
public class HelloWorld {

	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.print("Enter a number to check  prime or not: ");
		int number = sc.nextInt();
		sc.close();

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

	public static boolean isPrime(int num) {
		if (num <= 1) {
			return false; // 0 and 1 are not prime numbers
		}
		if (num <= 3) {
			return true; // 2 and 3 are prime numbers
		}
		if (num % 2 == 0 || num % 3 == 0) {
			return false; // multiples of 2 and 3 are not prime
		}
		for (int i = 5; i * i <= num; i += 6) {
			if (num % i == 0 || num % (i + 2) == 0) {
				return false;
			}
		}
		return true;
	}


}
```

Output:-

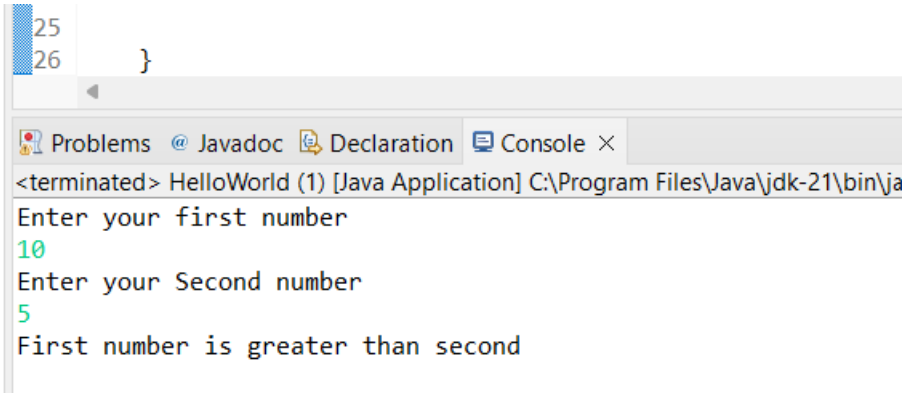


7.Create a Java program that compares two numbers and prints the larger one.

Code:-

```
package Assignment;
import java.util.Scanner;     // package which is use to take input by user.
public class HelloWorld {

	public static void main(String[] args) {
		Scanner obj=new Scanner(System.in); //object declaration
		System.out.println("Enter your first number");
		double firstn=obj.nextDouble();

		System.out.println("Enter your Second number");
		double secondn=obj.nextDouble();
		if(firstn >secondn)  //logic for 1st no. grater
		{
			System.out.println("First number is greater than second");
		}
		else if (secondn > firstn) //logic for 2nd no.grater
		{
			System.out.println("Second number is greater than first");
			}
		else
		{
			System.out.println(" Both numbers are equal to each other");
			}


	}
}
```

Output:-

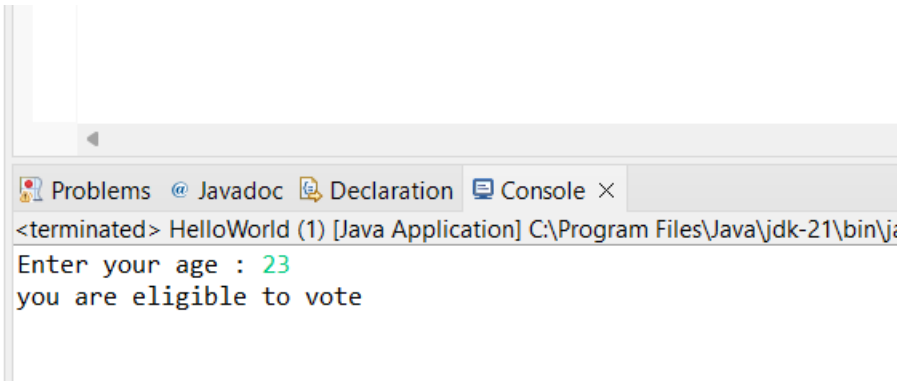


8.Write a Java program that takes an age input from the user and determines if they are eligible to vote (considering the legal voting age).

Code:-

```
package Assignment;
import java.util.Scanner;     // package which is use to take input by user.
public class HelloWorld {

	public static void main(String[] args) {
		Scanner vote=new Scanner(System.in); //object declaration
		System.out.print("Enter your age : ");
		int candidateage=vote.nextInt();

		if(candidateage >=18)  //logic for vote age.
		{
			System.out.println("you are eligible to vote"); //to print
eligible
		}
		else
		{
			System.out.println("you are  not eligible to vote"); //to print
not eligible
		}


	}
}
```

Output:-


Problems
Javadoc
Declaration
Console
<terminated> HelloWorld (1) [Java Application] C:\Program Files\Java\jdk-21\bin\j
Enter your age : 23
you are eligible to vote