

1.write a java program to print “ Hello World” to the console.

Code:

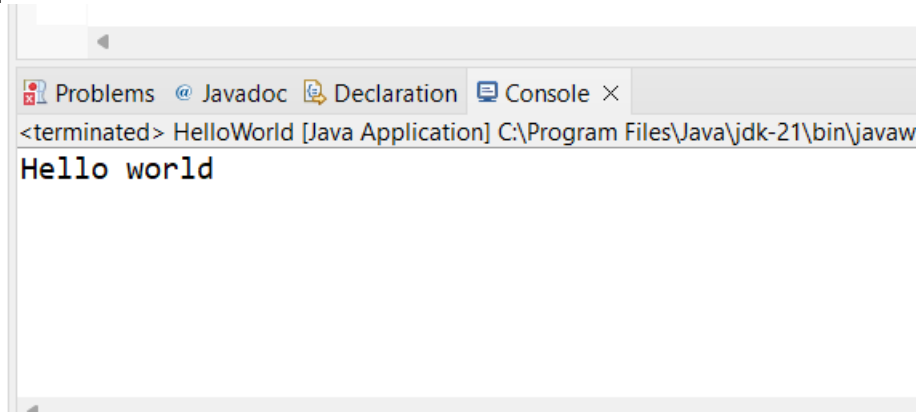
```
package Lab1Programs;

public class HelloWorld {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("Hello world");
    }

}
```

Output:



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

Code:

```
package sumoftwonumber;
import java.util.Scanner;

public class SunOfTwoNumbers {
    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the first number: ");
        int num1 = scanner.nextInt();

        System.out.print("Enter the second number: ");
        int num2 = scanner.nextInt();

        int sum = num1 + num2;

        System.out.println("The sum of " + num1 + " and " + num2 + " is " +
sum);
    }
}
```

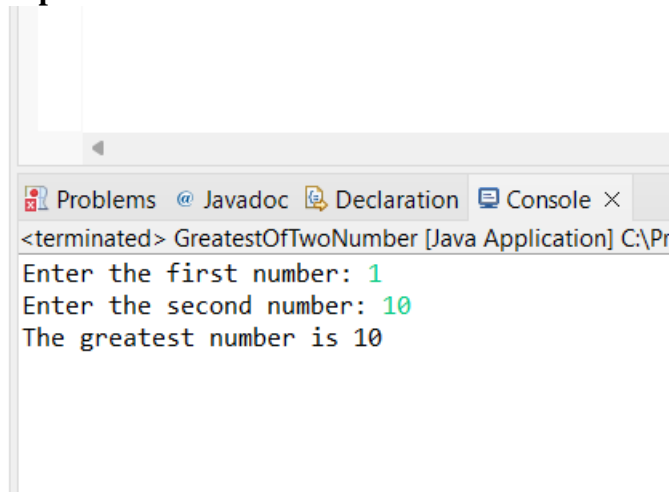
Output:


```

public class GreatestOfTwoNumber {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the first number: ");
        int num1 = scanner.nextInt();
        System.out.print("Enter the second number: ");
        int num2 = scanner.nextInt();
        int greatest = (num1 > num2) ? num1 : num2;
        System.out.println("The greatest number is " + greatest);
    }
}

```

Output:



5. Write a program to implement a basic calculator that takes input as a string expression & evaluates it.

Code:

```

package Lab1Programs;
import java.util.Scanner;
public class BasicCalculator {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        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;
        if (operator == '+') {
            result = num1 + num2;
        } else if (operator == '-') {
            result = num1 - num2;
        } else if (operator == '*') {

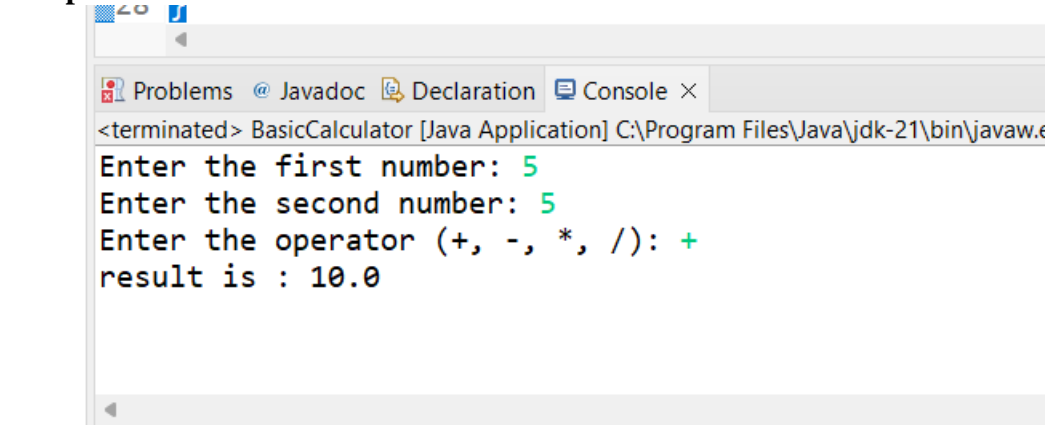
```

```

        result = num1 * num2;
    } else if (operator == '/') {
        result = num1 / num2;
    }
    System.out.println("result is : "+ result);
    scanner.close();
}
}

```

Output:



```

<terminated> BasicCalculator [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe
Enter the first number: 5
Enter the second number: 5
Enter the operator (+, -, *, /): +
result is : 10.0

```

6. Write a Java program to check if a given number is even or odd.

Code:

```

import java.util.Scanner;

public class EvenOrOdd {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

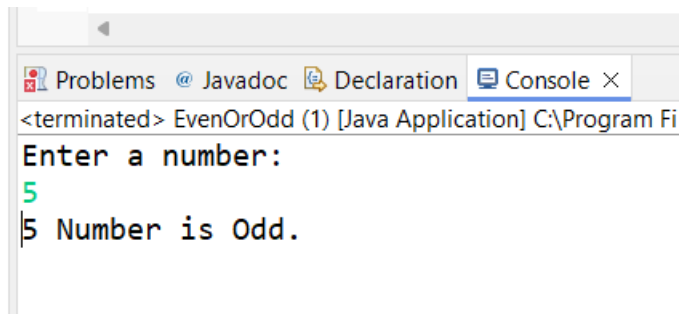
        // Prompt the user to enter a number
        System.out.println("Enter a number:");
        int number = scanner.nextInt();

        // Check if the number is even or odd
        if (number % 2 == 0) {
            System.out.println(number + " is even.");
        } else {
            System.out.println(number + " is odd.");
        }

        // Close the scanner to free up resources
        scanner.close() }
}

```

Output:



```
<terminated> EvenOrOdd (1) [Java Application] C:\Program Fi
Enter a number:
5
5 Number is Odd.
```

7. Write a java program that compares two numbers & prints the larger one.

Code:

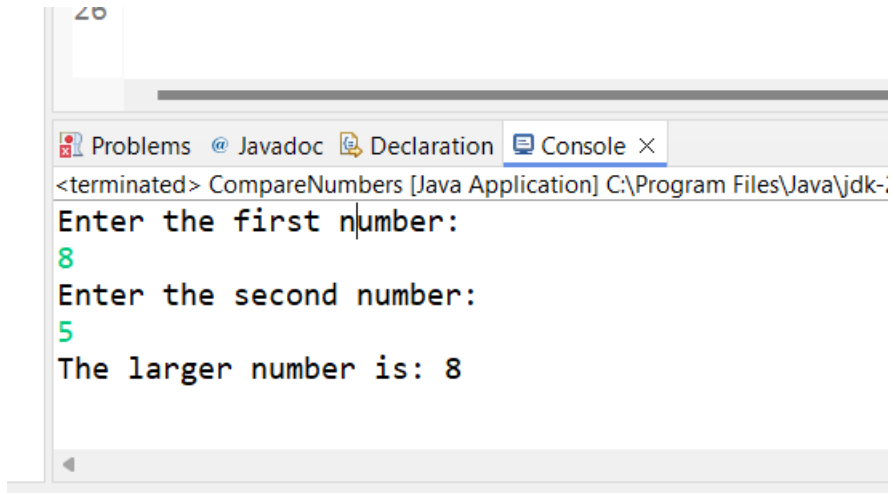
```
package Lab1Programs;
import java.util.Scanner;
public class CompareNumbers {

    public static void main(String[] args) {
        // Create a Scanner
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the first number:");
        int number1 = scanner.nextInt(); // Read the first
number and store it in variable number

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

        // Compare the two numbers and print the larger one
        if (number1 > number2) {
            System.out.println("The larger number is: " +
number1);
        } else if (number2 > number1) {
            System.out.println("The larger number is: " +
number2);
        } else {
            System.out.println("Both numbers are equal.");
        }
        // Close the scanner
        scanner.close();
    }
}
```

Output:



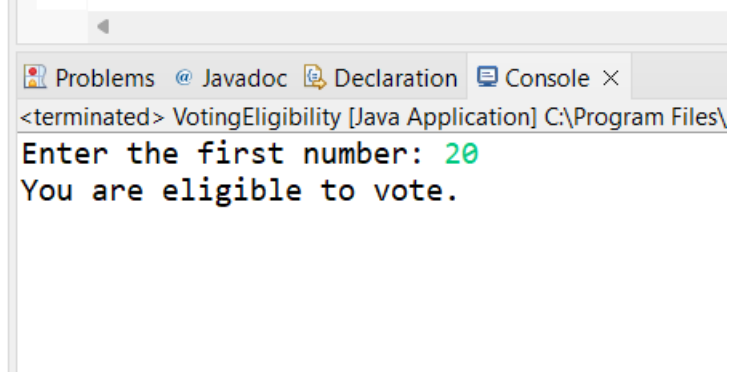
```
<terminated> CompareNumbers [Java Application] C:\Program Files\Java\jdk-  
Enter the first number:  
8  
Enter the second number:  
5  
The larger number is: 8
```

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

Code:

```
package Lab1Programs;  
import java.util.Scanner;  
public class VotingEligibility {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        Scanner scanner = new Scanner(System.in);  
        System.out.print("Enter the first number: ");  
        int age = scanner.nextInt();  
  
        if (age >= 18) {  
            System.out.print("You are eligible to vote.");  
        } else {  
            System.out.print("You are not eligible to vote.");  
        }  
        scanner.close();  
    }  
}
```

Output:



```
<terminated> VotingEligibility [Java Application] C:\Program Files\  
Enter the first number: 20  
You are eligible to vote.
```