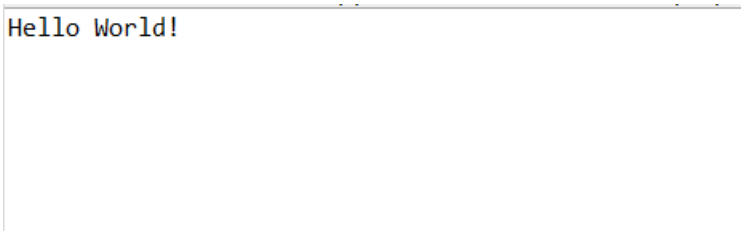
Batch code: ANP-C7781 Student code: AF0403155

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

```
package demo;

public class hello {


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.

```
package demo;

import java.util.Scanner;

public class sum {

public static void main(String[] args) {

int a,b,c;   // Declaring variables


Scanner s=new Scanner(System.in);

System.out.println("enter first number:");  // taking user input


a=s.nextInt();

System.out.println("enter second number:");

b=s.nextInt();

c=a+b;

System.out.println("Sum of two numbers is: "+c);

}
}
```

Output:

```
<terminated> sum [Java Application] C:\Users\rashm\
enter first number:
85
enter second number:
66
Sum of two numbers is: 151
```

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

```
package demo;

import java.util.Scanner;


public class oddnum {


public static void main(String[] args) {

Scanner a = new Scanner(System.in);


System.out.print("Enter a number: ");   // taking user input


int num = a.nextInt();// Declaring variables


if(num % 2 == 0)  // Checking condition

System.out.println(num + " is even");

else

System.out.println(num + " is odd");
}
}
```

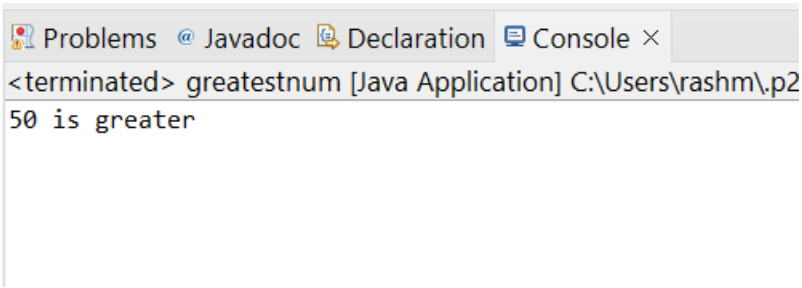
Output:

```
<terminated> oddnum [Java Application] C:\Users\rashm\.p2\p
Enter a number: 98
98 is even
```

4.Write a java program to find greatest of 2 numbers.

```
package demo;

public class greatestnum {

public static void main(String[] args) {

// TODO Auto-generated method stub


int  num1 = 50, num2 = 20; // Declaring variables


if (num1 == num2)  // Checking condition

System.out.println ("both are equal");

else if (num1 > num2)

System.out.println (num1 + " is greater");

else

System.out.println (num2 + " is greater");

}

}
```

Output:

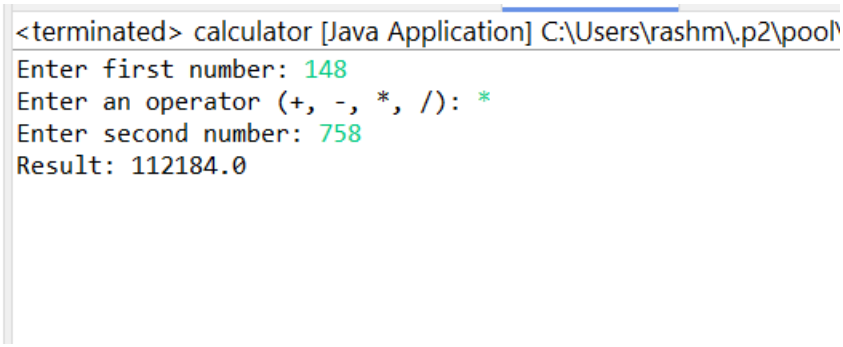


5.Write a program to implement a basic calculator that takes input as a string expression and evaluates it.

```
package demo;

import java.util.Scanner;

public class calculator {

public static void main(String[] args) {

Scanner n = new Scanner(System.in);

double num1, num2, result; // Declaring variables


char operator;


System.out.print("Enter first number: ");   // taking user input


num1 = n.nextDouble();


System.out.print("Enter an operator (+, -, *, /): ");

operator = n.next().charAt(0);


System.out.print("Enter second number: ");

num2 = n.nextDouble();

// Checking condition


if (operator == '+') {

result = num1 + num2;

} else if (operator == '-') {

result = num1 - num2;

} else if (operator == '*') {

result = num1 * num2;
```

```
} else if (operator == '/') {
if (num2 != 0) {
result = num1 / num2;
} else {
System.out.println("Error: Division by zero is not allowed.");
return;
}
} else {
System.out.println("Error: Invalid operator.");
return;
}

System.out.println("Result: " + result);
}
}
```

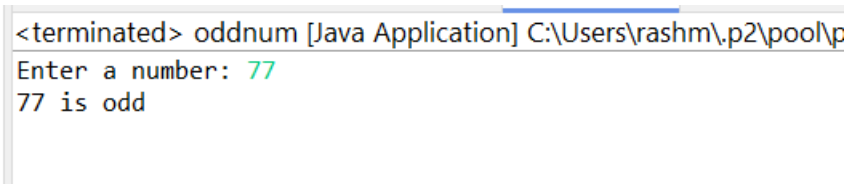
Output:



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

```
package demo;

import java.util.Scanner;


public class oddnum {


public static void main(String[] args) {

Scanner a = new Scanner(System.in);


System.out.print("Enter a number: ");// taking user input


int num = a.nextInt();    // Declaring variables


if(num % 2 == 0) // Checking condition

System.out.println(num + " is even");

else

System.out.println(num + " is odd");
}
}
```

Output:



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

```
package demo;

import java.util.Scanner;

public class largest

{

public static void main(String[] args)

{// Declaring variables

int num1, num2, largest;

Scanner a= new Scanner(System.in);

System.out.print("Enter the First Number: ");// taking user input

num1 =a.nextInt();

System.out.print("Enter the Second Number: ");// taking user input


num2 =a.nextInt();


if(num1>num2) // Checking condition

largest = num1;

else

largest = num2;

System.out.println("\nLargest = " +largest);

}

}
```

Output:

```
<terminated> largest [Java Application] C:\Users\rashm\.p2\pool\
Enter the First Number: 6757587
Enter the Second Number: 466

Largest = 6757587
```

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).

```
package demo;
import java.util.Scanner;
public class vote {
public static void main(String[] args)
{
// Declaring variables
int age, diff;
// taking user input
Scanner scan = new Scanner(System.in);
System.out.println("Please enter your age: ");
age = scan.nextInt();
// Checking condition
if(age>=18)
{
System.out.println("You are eligible for voting.");
}
else
{
diff = (18 - age);
System.out.println("Sorry,You can vote after: "+ diff + " years");
}
}
}
```

Output: