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LAB 1

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

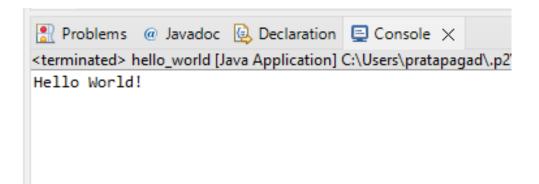
Program:-

```
package demo;

public class hello_world {

    public static void main(String[] args) {

        // TODO Auto-generated method stub
        System.out.println("Hello World!");
        //Printing hello world!
    }
}
```



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

Program:-

```
package demo;
import java.util.Scanner;
public class sum_of_two_Number {
public static void main(String[] args) {
// TODO Auto-generated method stub
Scanner obj=new Scanner(System.in);
//creating the Scanner object
int n1,n2,add;
//declaring the variables
System.out.println("Enter the first number: ");
n1=obj.nextInt();
//taking first number input
System.out.println("Enter the second number: ");
n2=obj.nextInt();
//taking second number input
add=n1+n2;
//adding two number
System.out.println("Addition is: "+add);
}
}
```

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

Program:-

```
package demo;
import java.util.Scanner;
public class even_odd {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner obj=new Scanner(System.in);
             int n; //declaring the variable
             System.out.println("Enter the number: ");
             n=obj.nextInt(); //taking the number as a input
             if(n%2==0)//checking the remainder of input with 0
                    System.out.println(n+" is Even Number.");
             }
             else
                   System.out.println(n+" is Odd Number.");
      }
}
```

```
Problems @ Javadoc Declaration Console X

<terminated> even_odd [Java Application] C:\Users\pratapagad\.p2\po

Enter the number:

5
5 is Odd Number.
```

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

Program:-

```
package demo;
import java.util.Scanner;
public class find_greatest_two_number {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner obj=new Scanner(System.in);
             //creating the scanner object
             int n1,n2; //declaring the variables
             System.out.println("Enter the first number: ");
             n1=obj.nextInt(); //first user input
             System.out.println("Enter the second number: ");
             n2=obj.nextInt(); //second user input
             if(n1>n2) //comparing both value that which value is greater
               System.out.println(n1+" is greater than "+n2);
             }
             else
               System.out.println(n1+" is smaller than "+n2);
      }
}
```

```
Problems @ Javadoc Declaration Console X

<terminated > find_greatest_two_number [Java Application] C:\Users\pratapagad\.p2\pool\pl

Enter the first number:

100

Enter the second number:

1
100 is greater than 1
```

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

Program:-

```
package demo;
import java.util.Scanner;
public class basic calculator {
      public static void main(String[] args) {
          char operator;
          Double number1, number2, result;
          // create an object of Scanner class
          Scanner input = new Scanner(System.in);
          // ask users to enter operator
          System.out.println("Choose an operator: +, -, *, or /");
          operator = input.next().charAt(0);
          // ask users to enter numbers
          System.out.println("Enter first number");
          number1 = input.nextDouble();
          System.out.println("Enter second number");
          number2 = input.nextDouble();
          switch (operator) {
            // performs addition between numbers
            case '+':
              result = number1 + number2;
              System.out.println(number1 + " + " + number2 + " = " + result);
              break;
            // performs subtraction between numbers
            case '-':
              result = number1 - number2;
              System.out.println(number1 + " - " + number2 + " = " + result);
              break;
            // performs multiplication between numbers
            case '*':
              result = number1 * number2;
              System.out.println(number1 + " * " + number2 + " = " + result);
              break;
            // performs division between numbers
            case '/':
              result = number1 / number2;
              System.out.println(number1 + " / " + number2 + " = " + result);
              break;
            default:
              System.out.println("Invalid operator!");
              break;
          }
```

```
Problems @ Javadoc Declaration Console X

<terminated basic_calculator [Java Application] C:\Users\pratapagad\.p2\pool\plugins\org.eclipse.justj.c

Choose an operator: +, -, *, or /

Enter first number

10

Enter second number

20

10.0 + 20.0 = 30.0
```

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

Program:-

```
package demo;
import java.util.Scanner;
public class check_even_odd {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             int n=10; //declaring and assigning the variable
             if(n%2==0)//checking the remainder of input with 0
                   System.out.println(n+" is Even Number.");
                    //print the statement if it is even
             else
             {
                   System.out.println(n+" is Odd Number.");
                    //print the statement if it is odd
             }
      }
}
```

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

Program:-

```
package demo;
public class greater_two_number {
                    public static void main(String[] args) {
                    // TODO Auto-generated method stub
                    int n1=25,n2=20; //declaring and assigning the
variables
                    if(n1>n2) //comparing both value that which value is
greater
                    {
                      System.out.println(n1+" is greater than "+n2);
                    }
                    else
                    {
                      System.out.println(n1+" is smaller than "+n2);
      }
}
```

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Q.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).

Program:-

```
package demo;
import java.util.Scanner;
public class eligible_vote {
      public static void main(String[] args) {
      // TODO Auto-generated method stub
      Scanner obj=new Scanner(System.in);
      //creating the scanner object
      int age; //declaring the variable
      System.out.println("Enter your age: ");
      age=obj.nextInt();//taking user's age as an input
      if(age>=18)//check whether the user is eligible for voting or not
             System.out.println("Eligible for voting");
      }
      else
      {
             System.out.println("Not eligible for voting");
}
```

```
Problems @ Javadoc Declaration Console X

<terminated > eligible_vote [Java Application] C:\Users\pratapagad\.p2\pool\plugins\org.ecl
Enter your age:

20
Eligible for voting
```