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

Code:-

```
package MyPackage;
public class HelloWorld
{
  Public static void main (String[] args)
  {
    System.out.println(“Hello World”);
  }
}
```

Output:-

```
Hello World
```

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

Code:-

```
package MyPackage;
import java.util.Scanner;
public class SumOfTwoNumbers
{
  Public static void main (String[] args)
  {//Takes two number in input
    Scanner sc=new Scanner (System.in);
    System.out.print(“Enter first number: “);
    Int num1 = sc.nextInt();
    System.out.print(“Enter second number: “);
    Int num2 = sc.nextInt();
    Int sum = num1 + num2;
    System.out.println(num1 + “ + “ + num2 + “ = “ + sum);
  }
}
```

Output:-

```
Enter first number: 10
Enter second number: 20
10 + 20 = 30
```

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

Code:-

```
package MyPackage;
import java.util.Scanner;
public class EvenOdd
{//Takes a number in input
  Public static void main (String[] args)
  {
    Scanner sc=new Scanner (System.in);
    System.out.print(“Enter a number: “);
    Int num = sc.nextInt();
    //To check whether number is even or odd
    If (num % 2 == 0) {
      System.out.println(num + “ is even number.”);
    } else {
      System.out.println(num + “ is odd number.”);
    }
  }
}
```

Output:-

```
Enter a number: 13
13 is odd number.
```

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

Code:-

```
package MyPackage;
public class GreatestOfThreeNumber
{
  Public static void main (String[] args)
  {
    Int num1 = 83;
    Int num2 = 52;
    Int num3 = 95;
    //To check greatest number
    If (num1>num2 && num1>num3) {
      System.out.println(num1 + “ is greatest number.”);
    } else if(num2>num1 && num2>num3){
      System.out.println(num2 + “ is greatest number.”);
    } else {
      System.out.println(num3 + “ is greatest number.”);
    }
  }
}
```

Output:-

```
95 is greatest number.
```

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

Code:-

```
package MyPackage;
import java.util.Scanner;
public class Calculator
{
  Public static void main (String[] args)
  {
    Scanner sc=new Scanner(System.in);
    System.out.print(“Enter first number: “);
    Int num1=sc.nextInt();
    System.out.print(“Enter second number: “);
    Int num2=sc.nextInt();

    Int add = num1 + num2;  //addition
    Int sub = num1 – num2;  //subtraction
    Int mul = num1 * num2;  //multiplication
    Int div = num1 / num2;  //division

    System.out.println(num1 + “ + “ + num2 + “ = “ + add);
    System.out.println(num1 + “ – “ + num2 + “ = “ + sub);
    System.out.println(num1 + “ * “ + num2 + “ = “ + mul);
    System.out.println(num1 + “ / “ + num2 + “ = “ + div);
  }
}
```

Output:-

```
Enter first number: 20
Enter second number: 10
20 + 10 = 30
20 - 10 = 10
20 * 10 = 200
20 / 10 = 2
```

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

Code:-

```
package MyPackage;
import java.util.Scanner;
public class PrimeNumber
{
  Public static void main (String[] args)
  { //takes number as input
    Scanner sc=new Scanner(System.in);
    System.out.print(“Enter a number: “);
    Int num=sc.nextInt();
    Int count=0;

    If (num == 0 || num == 1) {
      System.out.println(num + “ is not a prime number.”);
    } else {
      //checks how many times remainder is 0 and increase the count
      For (int i=1; i<num; i++){
        If (num % I == 0) {
          Count++;
        }
      }
      If (count < 2) {
        //if count is less than 2 or equal to 1 means number is divisible
by only with 1 and the number is prime number
        System.out.println(num + “ is a prime number.”);
      } else {
        //if count is greater than 1 means number is divisible by many
numbers and number is not prime number
        System.out.println(num + “ is not a prime number.”);
      }
    }
  }
}
```

Output:-

```
Enter a number: 37
37 is a prime number.
```

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

Code:-

```
package MyPackage;
public class LargestOfTwoNumber
{
  Public static void main (String[] args)
  {
    Int num1 = 55;
    Int num2 = 42;
    //To compare both numbers
    If (num1>num2) {
      System.out.println(num1 + " is largest number.");
    } else {
      System.out.println(num2 + " is largest number.");
    }
  }
}
```

Output:-

```
55 is largest number.
```

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 MyPackage;
import java.util.Scanner;
public class Voting
{
  Public static void main (String[] args)
  {//Takes age as input
    Scanner sc=new Scanner(System.in);
    System.out.print("Enter your age: ");
    Int age=sc.nextInt();
    //To check eligibility
    If (age>=18) {
      System.out.println("You are eligible for voting.");
    } else {
      System.out.println("You are not eligible for voting.");
    }
  }
}
```

Output:-

```
Enter your age: 21
You are eligible for voting.
```