1. Write a java program to print “Hello, World!” in console.
2. package NDemo;
3. public class HelloWorldClass {
4. public static void main(String[] args) {
5. // **TODO** Auto-generated method stub
6. System.***out***.println("Hello, World!");
7. }

}

Output:

A screenshot of a computer

Description automatically generated

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

package Lab\_1;

import java.util.Scanner;

public class SunOfTwoNumbers {

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();

sc.close();

// Output

System.***out***.println("Sum of " + num1 + " and " + num2 + " is : " + (num1+num2));

}

}

Output:

A screenshot of a computer

Description automatically generated

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

package Lab\_1;

import java.util.Scanner;

public class EvenOrOdd {

public static void main(String[] args) {

Scanner sc = new Scanner(System.***in***);

System.***out***.print("Enter a number to check number is even or odd : ");

int num = sc.nextInt();

sc.close();

// when number(User Input Value) is divided by 2

// and reminder is 0 then we can say

// number is EVEN otherwise ODD

String ans = (num%2==0) ? "Even" : "Odd";

System.***out***.println("Given number " + num + " is : " + ans);

}

}

Output:

A screenshot of a computer

Description automatically generated

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

package Lab\_1;

import java.util.Scanner;

public class GreatestOfThreeNumber {

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();

System.***out***.print("Enter Third number : ");

int num3 = sc.nextInt();

sc.close();

if (num1>=num2 && num1>=num3) {

System.***out***.println("Greatest number is : " + num1);

} else if (num2>=num1 && num2>=num3) {

System.***out***.println("Greatest number is : " + num2);

} else if (num3>=num1 && num3>=num2) {

System.***out***.println("Greatest number is : " + num3);

}

}

}

Output:

A screenshot of a computer

Description automatically generated

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

package NDemo;

import java.util.Scanner;

class MyCalculator {

public static int add(int a, int b) {

return (a+b);

}

public static int sub(int a, int b) {

return (a-b);

}

public static int multi(int a, int b) {

return (a\*b);

}

public static double divi(int a, int b) {

return (a/(double)b);

}

}

public class newClass1 {

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();

sc.close();

MyCalculator obj = new MyCalculator();

System.***out***.println("Addition : " + obj.*add*(num1, num2));

System.***out***.println("Subtraction : " + obj.*sub*(num1, num2));

System.***out***.println("Multipication : " + obj.*multi*(num1, num2));

System.***out***.println("Division : " + obj.*divi*(num1, num2));

}

}

A computer screen shot of a number

Description automatically generated

Output :

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

package Lab\_1;

import java.util.Scanner;

public class PrimeNumber {

public static void main(String[] args) {

Scanner sc = new Scanner(System.***in***);

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

int num = sc.nextInt();

sc.close();

boolean ans = *checkPrime*(num);

// if answer is true

if (ans) {

System.***out***.println("Number " + num + " is prime number");

} else {

System.***out***.println("Number " + num + " is not prime number");

}

}

private static boolean checkPrime(int n) {

// if number is 1, 2, 3

// then number is prime number

if (n>=1 && n<=3) {

return true;

}

// Main logic

for (int i=2; i\*i<=n ; i++) {

// if number is divisible by 'i'

// then it's not a prime number

if (n%i==0) {

return false;

}

}

// if number is not divisible by any number

// then number is prime

return true;

}

}

Output: A screen shot of a computer

Description automatically generated

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

Package Lab\_1

import java.util.Scanner;

public class GreatestOf2Number {

public static void main(String[] args) {

Scanner sc = new Scanner(System.***in***);

System.***out***.print("Enter first number : ");

double num1 = sc.nextDouble();

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

double num2 = sc.nextDouble();

sc.close();

if (num1>num2) {

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

} else if (num1<num2) {

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

} else {

System.***out***.println(num1 + " and " + num2 + " is equal");

}

}

}

Output:

A screenshot of a computer

Description automatically generated

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 Lab\_1;

import java.util.Scanner;

public class VotingEligibility {

public static void main(String[] args) {

Scanner sc = new Scanner(System.***in***);

System.***out***.print("Enter age : ");

double age = sc.nextDouble();

sc.close();

// if age is 18 or above

// then you are eligible for voting

if (age>=18) {

System.***out***.println("Eligible for voting");

} else {

System.***out***.println("Not eligible for voting");

}

}

}

Output:

A screenshot of a computer

Description automatically generated