

1.WRITE A JAVA PROGRAM TO PRINT HELLO WORLD

```
class helloworld
{
    public static void main(String[] args)
    {
        System.out.println("Hello world");
    }
}
```

OUTPUT:

Hello world

2.WRITE A JAVA PROGRAM FOR ADDITION

```
class Addition
{
    public static void main(String[] args)
    {
        System.out.println("hello world");
        int a=10,b=20,c;
        c=a+b;
        System.out.println("output:"+c);
    }
}
```

OUTPUT:

output:30

3.WRITE A JAVA PROGRAM TO FIND ODD OR EVEN

```
import java.util.*;
class OddEven
{
    public static void main(String[] args)
    {
        System.out.print("Enter the number:");
        Scanner s= new Scanner(System.in);
        int n=s.nextInt();
        if(n%2==0)
        {
            System.out.println("The given number "+ n + " is even");
        }
        else
        {

```

```

        System.out.println("The given number "" + n + " is odd");
    }
}
}

```

OUTPUT:

Enter a number:10
The given number 10 is even

4.WRITE A JAVA PROGRAM TO CHECK LEAP YEAR OR NOT

```

import java.util.Scanner;
public class LeapYear {
    public static void main(String[] args){
        int year;
        System.out.println("Enter an Year : ");
        Scanner sc = new Scanner(System.in);
        year = sc.nextInt();

        if (((year % 4 == 0) && (year % 100 != 0)) || (year%400 == 0))
            System.out.println("Leap year");
        else
            System.out.println("Not a Leap year");
    }
}

```

OUTPUT:

Enter an Year:2000
Leap year

5.WRITE A JAVA PROGRAM TO CHECK ELIGIBLE TO VOTE OR NOT

```

import java.util.Scanner;
public class Voting {
    public static void main(String[] args){
        int age;
        System.out.println("Enter your age : ");
        Scanner sc = new Scanner(System.in);
        age = sc.nextInt();

        if (age>=18)
            System.out.println("Eligible for vote");
        else
            System.out.println("Not Eligible for vote");
    }
}

```

OUTPUT:

Enter your age :20
Eligible for vote

6.WRITE A JAVA PROGRAM TO CHECK POSITIVE OR NEGATIVE

```
import java.util.Scanner;
public class Voting {
    public static void main(String[] args){
        int num;
        System.out.println("Enter a num : ");
        Scanner sc = new Scanner(System.in);
        num = sc.nextInt();

        if (num>=18)
            System.out.println("Positive");
        else if( num==0)
            System.out.println("Neutral num");
        else
            System.out.println("Negative");
    }
}
```

OUTPUT:

Enter a num : 10
Positive

7.WRITE A JAVA PROGRAM TO PRINT SUM OF SERIES

```
import java.util.Scanner;
public class SumOfSeries{
    public static void main(String[] args){
        int num,sum=0;
        System.out.println("Enter a num : ");
        Scanner sc = new Scanner(System.in);
        num = sc.nextInt();
        for(int i=0;i<=num;i++)
        {
            sum=sum+i;
        }
        System.out.print("Sum is:"+ sum);
    }
}
```

OUTPUT:

Enter a num : 10
Sum is:55

8.WRITE A JAVA PROGRAM TO CALCULATE SIMPLE INTEREST

```
import java.util.Scanner;
public class simpleintrest
```

```

{
    public static void main(String[] args)
    {
        System.out.println("enter the values for P,T,R:");
        Scanner sc=new Scanner(System.in);
        float P=sc.nextFloat();
        float T=sc.nextFloat();
        float R=sc.nextFloat();
        float SI = (P * T * R) / 100;
        System.out.println("Simple interest = " + SI);
    }
}

```

OUTPUT:

enter the values for P,T,R:

2000

2

2

Simple interest = 80.0

9.WRITE A JAVA PROGRAM FOR FIBONACCI SERIES

```

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

        int n = 10, firstTerm = 0, secondTerm = 1;
        System.out.println("Fibonacci Series till " + n + " terms:");

        for (int i = 1; i <= n; ++i) {
            System.out.print(firstTerm + ", ");

            // compute the next term
            int nextTerm = firstTerm + secondTerm;
            firstTerm = secondTerm;
            secondTerm = nextTerm;
        }
    }
}

```

OUTPUT:

Fibonacci Series till 10 terms:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34,

10.WRITE A JAVA PROGRAM TO CALCULATE FACTORIAL

```

class Factorial{
public static void main(String args[]){
    int i,fact=1;
    int number=5;
    for(i=1;i<=number;i++){
        fact=fact*i;
    }
    System.out.println("Factorial of "+number+" is: "+fact);
}
}

```

OUTPUT:

Factorial of 5 is 120

11.WRITE A JAVA PROGRAM TO CHECK PRIME OR NOT

```
import java.util.Scanner;
```

```

class Prime {
    public static void main(String[] args) {
        int num, i = 2; // Initialize i to 2
        boolean flag = false;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        num = sc.nextInt();
        while (i <= num / 2) {
            if (num % i == 0) {
                flag = true;
                break;
            }
            ++i; // Added semicolon
        }
        if (!flag)
            System.out.println(num + " is a prime number.");
        else
            System.out.println(num + " is not a prime number.");
    }
}

```

OUTPUT:

Enter a number:11

11 is a prime

12.WRITE A JAVA PROGRAM TO PRINT COLLEGE

```
import java.util.Scanner;
```

```

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

```

```

System.out.println("Enter your department in CAPITALS: ");
Scanner dep = new Scanner(System.in);
String department = dep.nextLine();

if (department.equals("CSE") || department.equals("AIDS") || department.equals("AIML") ||
    department.equals("ECE") || department.equals("CIVIL") || department.equals("MECH")) {
    System.out.println("SSE");
} else if (department.equals("ARTS")) {
    System.out.println("SCLAS");
} else if (department.equals("ARCHITECTURE")) {
    System.out.println("SCAD");
} else {
    System.out.println("Please Enter correct DEP");
}
}
}

```

OUTPUT:

Enter your department in CAPITALS:CSE
SSE

13.WRITE A JAVA PROGRAM TO CHECK ARMSTRONG NUMBER OR NOT.

```

import java.util.*;

public class ArmstrongNum {

    public static void main(String[] args) {

        int originalNum, digit, cubeSum = 0, num;

        System.out.println("Enter the number:");
        Scanner s = new Scanner(System.in);
        num = s.nextInt();
        originalNum = num;
        while (num != 0) {
            digit = num % 10;
            cubeSum += Math.pow(digit, 3);
            num /= 10;
        }
        if (cubeSum == originalNum)
            System.out.println(originalNum + " is an Armstrong number");
        else
            System.out.println(originalNum + " is not an Armstrong number");
    }
}

```

OUTPUT:

Enter the number:

153

153 is an Armstrong number

```
import java.util.*;
```

```
public class POLINDROME {
```

```
    public static void main(String[] args)
    {
```

```
        System.out.print("Enter the user name:");
        Scanner input=new Scanner (System.in);
        String s1=input.nextLine();
        System.out.print("Reenter the user name:");
        String s2=input.nextLine();
        if (s1==s2)
        {
            System.out.print("User name is valid");
        }
        else
        {
            System.out.print("User name is invalid");
        }
    }
```

```
}
```

14.WRITE A JAVA PROGRAM TO CALCULATE SIMPLE INTEREST

```
public class SimpleInterestCalculator {
```

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

```
        System.out.print("Enter the principal amount: ");
        double principal = scanner.nextDouble();
```

```
        System.out.print("Enter the no of years: ");
        int years = scanner.nextInt();
```

```
        System.out.print("Is customer senior citizen (y/n): ");
        String isSenior = scanner.next();
```

```

    if (principal <= 0 || years <= 0) {
        System.out.println("Invalid input. Principal and years should be positive values.");
    } else {
        double rateOfInterest = isSenior.equalsIgnoreCase("y") ? 0.12 : 0.10;
        double interest = principal * rateOfInterest * years;

        System.out.println("Interest: " + interest);
    }
}
}

```

WRITE A JAVA PROGRAM FOR DAYS CONVERTER
import java.util.Scanner;

```

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

        System.out.print("Enter the number of days: ");
        int totalDays = scanner.nextInt();

        if (totalDays < 0) {
            System.out.println("Invalid input. Number of days should be a non-negative integer.");
        } else {
            int years = totalDays / 365;
            int remainingDays = totalDays % 365;
            int weeks = remainingDays / 7;
            int days = remainingDays % 7;

            System.out.println("No. of years: " + years);
            System.out.println("No. of weeks: " + weeks);
            System.out.println("No. of days: " + days);
        }
    }
}

```