

DAY - 1

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1. Write a java program add two numbers.

Program:

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

Output:

Sum=30

2. Write a java program Add two numbers.

Program:

```
import java.util.*;
class AddTwoNumbers
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the number:");
        int c;
        int a=s.nextInt();
        System.out.println("Enter the number:");
        int b=s.nextInt();
        c=a+b;
    }
}
```

```
        System.out.println("Sum="+c);
    }
}
```

Output:

Enter the number:

10

Enter the number:

20

Sum=30

3. Write a java program Simple interst.

Program:

```
class HelloWorld {
    public static void main(String[] args) {
        int p=50,t=10,r=12,A;
        A=p*t*r/100;
        System.out.println("output="+A);
    }
}
```

Output:

output=60

4. Write a java program Celsius to faranheit.

Program:

```
import java.util.*;
class weather
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        float C,F;
```

```

        C=s.nextFloat();
        F=((C*9)/5)+32;
        System.out.println("Fahren heat="+F);
    }
}

```

Output:

13

Fahren heat=55.4

5. Write a java program Even or Odd number.

Program:

```

import java.util.*;
class oddeven
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter a num");
        int num=s.nextInt();
        if(num % 2 == 0)
            System.out.println(num+"is even");
        else
            System.out.println(num+"is odd");
    }
}

```

Output:

Enter a num

10

10is even

6. Write a java program leap year or not.

Program:

```

class leapyear

```

```

{
    public static void main(String[] args)
    {
        int year = 2024;
        boolean leap = false;
        if (year % 4 == 0) {
            if (year % 100 == 0) {
                if (year % 400 == 0)
                    leap = true;
                else
                    leap = false;
            }
            else
                leap = true;
        }
        else
            leap = false;
        if (leap)
            System.out.println(year + " is a leap year.");
        else
            System.out.println(year + " is not a leap year.");
    }
}

```

Output:

2024 is a leap year.

7. Write a java program to find eligible to vote or not.

Program:

```

import java.util.Scanner;

public class voting {

    public static void main(String[] args) {
        int age, shrt;

```

```

Scanner scan = new Scanner(System.in);
System.out.println(" Please enter your age");
age = scan.nextInt();
if(age>=18) {
System.out.println("Yo can Vote");

}
else
{shrt= (18 - age);
System.out.println("You can vote after :"+ shrt + " years");}
}
}

```

Output:

Please enter your age

11

You can vote after :7 years

8. Write a java program program to find given number is positive or negative.

Program:

```

import java.util.*;
class posneg
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter a num");
        int num=s.nextInt();
        if(num>0)
            System.out.println(num+"is pos");
        else
            System.out.println(num+"is neg");
    }
}

```

```
}
```

Output:

Enter a num

10

10 is pos

9. Write a java program to find the sum of series.

Program:

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

```
class series
```

```
{
```

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

```
    {
```

```
        Scanner s=new Scanner(System.in);
```

```
        System.out.println("Enter the number:");
```

```
        int i,sum=0;
```

```
        int num=s.nextInt();
```

```
        for(i=1;i<=num;i++)
```

```
        {
```

```
            sum=sum+i;
```

```
        }
```

```
        System.out.println("sum of numbers is "+sum);
```

```
    }
```

```
}
```

Output:

Enter the number:10

sum of numbers is 55

10. Write a java program to find the factorial of n.

Program:

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

```
class factorial
```

```
{
```

```

public static void main(String[] args)
{
    Scanner s=new Scanner(System.in);
    System.out.println("num=");
    int num=s.nextInt();
    int i,fact=1;
    for(i=1;i<=num;i++)
    {
        fact=fact*i;
    }
    System.out.println("num="+fact);
}
}

```

Output:

num=

5

num=120

11. Write a java program program to find the Fibonacci of n.

Program:

```

import java.util.*;
class Fibonacci
{
    public static void main(String[] args)
    {
        int n,a=0,b=0,c=1;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter n:");
        n=s.nextInt();
        System.out.println("Fibonacci Series");
        for(int i=1;i<=n;i++)
        {

```

```

        a=b;

        b=c;

        c=a+b;

        System.out.println(a+" ");

    }

}

}

```

Output:

Enter n:

5

Fibonacci Series

0 1 1 2 3

12. Write a java program program to find the prime number or not.

Program:

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

```

class Prime {

    public static void main(String[] args) {

        Scanner sc= new Scanner(System.in);

        System.out.println("Enter a number to check if it is truly prime number or not: ");

        int number= sc.nextInt();

        if(isPrime(number)) {

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

        }

        else{

            System.out.println(number + " is a non-prime number");

        }

    }

    static boolean isPrime(int num)

    {

        if(num<=1)

```



```

    {
        return false;
    }
    for(int i=2;i<=num/2;i++)
    {
        if((num%i)==0)
            return false;
    }
    return true;
}

}

```

Output:

Enter a number to check if it is truly prime number or not:

5

5 is prime number

13. Write a java program program to find the arm strong or not.

Program:

```

public class Armstrong {
    public static void main(String[] args) {
        int number = 153, originalNumber, remainder, result = 0;
        originalNumber = number;
        while (originalNumber != 0)
        {
            remainder = originalNumber % 10;
            result += Math.pow(remainder, 3);
            originalNumber /= 10;
        }
        if(result == number)

```

```

        System.out.println(number + " is an Armstrong number.");
    else
        System.out.println(number + " is not an Armstrong number.");
    }
}

```

Output:

153 arm strong number

14. Write a java program program to find the reverse of a number.

Program:

```

import java.util.Scanner;

public class reverse {
    public static void main(String[] args){
        String str;
        char ch;
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter a string : ");
        str=sc.nextLine();
        System.out.println("Reverse of a String '"+str+"' is :");
        for(int j=str.length();j>0;--j) {
            System.out.print(str.charAt(j-1));
        }
    }
}

```

Output:

Enter a string : 1234

Reverse of a String '1234' is :4321

15. Write a java program program to find the Palindrome or not.

Program:

```

import java.util.Scanner;

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

```

```

Scanner in = new Scanner(System.in);

int r, sum = 0, temp;

int n = in.nextInt();

temp = n;

while (n > 0) {

    r = n % 10;

    n = n / 10;

    sum = (sum * 10) + r;

}

if(temp == sum)

    System.out.println(sum + " is palindrome number");

else

    System.out.println(sum + " is not palindrome number");

}

}

```

Output:

12345

54321 is not palindrome number

16. . Write a program to reverse a word using loop?

Program:

```

import java.util.Scanner;

public class reverse {

    public static void main(String[] args){

        String str;

        char ch;

        Scanner sc=new Scanner(System.in);

        System.out.print("Enter a string : ");

        str=sc.nextLine();

        System.out.println("Reverse of a String '"+str+"' is :");

        for(int j=str.length();j>0;--j) {

            System.out.print(str.charAt(j-1));}

    }

}

```

```
}  
}
```

Output:

Enter a string : rama

Reverse of a String 'rama' is :amar

17. Write a program to check the entered user name is valid or not. Get both the inputs from the user.

Program:

```
import java.util.Scanner;  
  
class user_Name{  
    public static void main(String [] args){  
        Scanner in=new Scanner(System.in);  
        System.out.println("enter the user name");  
        String str1=in.nextLine();  
        System.out.println("Reenter the user name");  
        String str2=in.nextLine();  
        if(str1.equals(str2)){  
            System.out.println("User name is valid");  
        }  
        else{  
            System.out.println("User name is not valid");  
        }  
    }  
}
```

Output:

enter the user name

saveetha@123

Reenter the user name

saveetha@123

User name is valid

18. Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible, then print how many years are left to be eligible.

Program:

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

```

public class voting {
    public static void main(String[] args) {
        int age,shrt;
        Scanner scan = new Scanner(System.in);
        System.out.println(" Please enter your age");
        age = scan.nextInt();
        if(age>=18) {
            System.out.println("Welcome to voting system Yo can Vote");}
        else
        {shrt= (18 - age);
        System.out.println("Sorry,You can vote after :"+ shrt + " years");}
    }
}

```

Output:

Please enter your age12

Sorry,You can vote after :6 years

19. Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent.

Program:

```

class simpleinterest {
    public static void main(String[] args) {
        int p=20000,t=3,r=10,A;
        A=p*t*r/100;
        System.out.println("output="+A);
    }
}

```

Output:

output=6000

20. Write a Java Program to Convert a Given Number of Days in Terms of Years, Weeks & Days.

Program:

```

import java.util.Scanner;

```

```
public class main{  
    public static void main(String args[]) {  
        int m, year, week, day;  
        Scanner s = new Scanner(System.in);  
        System.out.print("Enter the number of days:");  
        m = s.nextInt();  
        year = m / 365;  
        m = m % 365;  
        System.out.println("No. of years:"+year);  
        week = m / 7;  
        m = m % 7;  
        System.out.println("No. of weeks:"+week);  
        day = m;  
        System.out.println("No. of days:"+day);  
    }  
}
```

Output:

Enter the number of days:12

No. of years:0

No. of weeks:1

No. of days:5