# DAY – 1

## NAME:O.SAILAJA

REG NO:192111058

1 . Write a java program to print Welcome.

Program:

class MyFirstProgram {

public static void main(String[] args) {

System.out.println("Welcome");

}

}

Output:

Welcome

2.Write a java program to add two numbers.

Program:

class HelloWorld {

public static void main(String[] args) {

int a=10,b=10,c;

c=a+b;

System.out.println("output="+c);

}

}

Output:

output=20

3. Write a java program to find Simple interest.

Program:

class simpleinterest {

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 to convert Celsius to Fehren heat.

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 to find whether the given number is odd or even.

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

7

7is odd

6. Write a java program to find the leap year.

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 whether the 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

7

7is pos

8. Write a java program for factorial of a number.

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

9. Write a java program for 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:

8

sum of numbers is 36

10. Write a java program for Fibonacci series.

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:

3

Fibonacci Series

0

1

1

11. Write a java program to find the number is prime 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: ");

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:

5

5 is prime number

12. Write a java program to find the string is palindrome or not.

Program:

import java.util.Scanner;

public class PalindromeChecker {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a variable or number: ");

String input = scanner.nextLine();

if (isPalindrome(input)) {

System.out.println(input + " is a palindrome.");

} else {

System.out.println(input + " is not a palindrome.");

}

scanner.close();

}

public static boolean isPalindrome(String str) {

str = str.toLowerCase(); comparison

int left = 0;

int right = str.length() - 1;

while (left < right) {

if (str.charAt(left) != str.charAt(right)) {

return false;

}

left++;

right--;

}

return true;

}

}

Output:

Enter a variable or number: 121

121 is a palindrome.

Enter a variable or number: mom

mom is a palindrome.

13. Write a java program to reverse a string.

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 : sailaja

Reverse of a String 'sailaja' is :

ajalias

14. Write a java program for Armstrong number.

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 is an Armstrong number.

15. Write a java program to add two numbers using Double data type.

Program:

import java.util.\*;

class Addnumber

{

public static void main(String[]args)

{

Scanner s=new Scanner(System.in);

double a,b,c;

System.out.println("Enter the first no:");

a=s.nextDouble();

System.out.println("Enter the first no:");

b=s.nextDouble();

c=a+b;

System.out.println("output="+c);

}

}

Output:

Enter the first no:

10.2

Enter the first no:

10.3

output=20.5

16. Write a program to reverse a word using loop? (Not to use inbuilt functions)

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 : !@#$%

Reverse of a String '!@#$%' is :

%$#@!

Enter a string : 145\*999=144855

Reverse of a String '145\*999=144855' is :

558441=999\*541

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

sailaja@123

Reenter the user name

sailaja@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 age

14

Sorry,You can vote after :4 years

Please enter your age

21

Welcome to voting system Yo can Vote

19. Write e 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