Pranjal tiwari

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Java file

Q1 WAP to find out factorial of a number through recursion.

package pranjal\_tiwari.javafile;

import java.util.*\**;

public class ques1 {

    public static int fact(int n) {

        if(n==1){

            return 1;

        }

        else{

            return n\*fact(n-1);

        }

    }

    public static void main(String[] args) {

        Scanner sc= new Scanner(System.in);

        System.out.print("enter a number = ");

        int n=sc.nextInt();

        int ans=fact(n);

        System.out.println("factorial of "+n+" is = "+ans);

    }

}

Output

Text

Description automatically generated

Q2 WAP to print Fibonacci series. WAP to print Fibonacci series.

package pranjal\_tiwari.javafile;

import java.util.*\**;

public class ques2 {

    public static int fib(int n) {

        if(n==1 ){

            return 0;

        }

        if(n==2){

            return 1;

        }

        else{

            return fib(n-1) + fib(n-2);

        }

    }

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.print("enter a number = ");

        int num=sc.nextInt();

        for(int i=1;i<=num+1;i++){

            System.out.println(fib(i));

        }

    }

}

Output

A picture containing text

Description automatically generated

Q3 WAP to accept Command line arguments & print them.

package pranjal\_tiwari.javafile;

public class ques3 {

    public static void main(String args[]){

        for(int i=0;i<args.length;i++)

        System.out.println(args[i]);

        }

}

Output



Q4 WAP to obtain a number by a user & check if it’s prime or not.

package pranjal\_tiwari.javafile;

import java.util.*\**;

public class ques4 {

    public static boolean isPrime(int n) {

        boolean isPrime = true;

        for(int i=2;i<=n-1;i++){

            if(n%i==0){

                isPrime=false;

                break;

            }

        }

        return isPrime;

    }

    public static void main(String[] args) {

        Scanner sc= new Scanner(System.in);

        System.out.print("enter a number to check for prime = ");

        int n=sc.nextInt();

       System.out.println( isPrime(n));

    }

}

Output

Text

Description automatically generated