Assignment 1: WAP in java to check if a number is prime or not.

import java.util.Scanner;

class Prime{

    static int isPrime(int num){

        int flag = 1;

        if(num <= 1){

            flag = 0;

        }

        else{

            for(int i = 2; i<num;i++){

                if(num%i == 0){

                    flag = 0;

                    break;

                }

            }

        }

        return flag;

    }

    public static void main(String args[]){

        Scanner sc = new Scanner(System.in);

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

        int num = sc.nextInt();

        sc.close();

        System.out.println("");

        int ans = isPrime(num);

        if(ans == 1){

            System.out.println("The given number is prime");

        }

        else{

            System.out.println("The given number is not prime");

        }

    }

}

Output:

PS C:\Users\SAYAN\OneDrive\Desktop\KU ASSIGNMENT> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\SAYAN\AppData\Roaming\Code\User\workspaceStorage\4c8d33e878fb8d287d837607376f8836\redhat.java\jdt\_ws\KU ASSIGNMENT\_122a4dbb\bin' 'Prime'

Enter a number: 9

The given number is not prime

PS C:\Users\SAYAN\OneDrive\Desktop\KU ASSIGNMENT> c:; cd 'c:\Users\SAYAN\OneDrive\Desktop\KU ASSIGNMENT'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\SAYAN\AppData\Roaming\Code\User\workspaceStorage\4c8d33e878fb8d287d837607376f8836\redhat.java\jdt\_ws\KU ASSIGNMENT\_122a4dbb\bin' 'Prime'

Enter a number: 11

The given number is prime

PS C:\Users\SAYAN\OneDrive\Desktop\KU ASSIGNMENT>