⑧ Check if the given number is prime number or not.

```
import java.util.*;
class isprime
{
  static void isprime(int n)
  {
    int i, m=0, flag=0;
    m=n/2;
    if(n==0||n==1)
    {
      System.out.println(n+" is not a prime no");
    }
  }
  else
  {
    for(i=2;i<=m;i++)
    {
      if(n%i==0)
      {
        System.out.println(n+" is not a prime number");
        flag=1;
        break;
      }
      if(flag==0)
      {
        System.out.println(n+" is a prime number");
      }
    }
  }
public static void main(String args[])
{
  int i;
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter the value of i:");
  i=sc.nextInt();
  isprime(i);
}
}
```

Output: (S Gajanana Nayak 1BM22CS227)

```
Enter the value of i:
5
It is a prime number
```

//LAB-PROGRAM-(2)

```
import java.util.Scanner;
class Subject
{
  int subjectMarks;
  int credits;
  String grade;
}
class Student
{
  String name;
  String usn;
  double SGPA;
  Scanner s;
  Subject subject[];
  Student()
  {
    int i;
    Subject = new Subject[9];
    for(i=0; i<9; i++)
        subject[i] = new subject();
    s = new Scanner(System.in);
  }
void getStudentDetails()
  {
    System.out.println("Enter your name:");
    name = s.nextLine();
    System.out.println("Enter your usn:");
    usn = s.nextLine();
  }
```

```
void getMarks()
{
  int i;
  for(i=0; i<8; i++)
  {
    System.out.println("Enter the marks & credits for
                        course " + i + ":");
    System.out.println("marks:");
    int marks = s.nextInt();
    System.out.println("credits:");
    int credit = s.nextInt();
    subject[i].subjectMarks = marks;
    subject[i].credits = credit;

    if(marks>=90)
    {
      subject[i].grade="O";
    }
    else if(marks>=80){
      subject[i].grade="A+";
    }
    else if(marks>=70){
      subject[i].grade="A";
    }
    else if(marks>=60){
      subject[i].grade="B+";
    }
    else if(marks>=50){
      subject[i].grade="B";
    }
    else if(marks<=40){
      subject[i].grade="C";
    }
    else{
      subject[i].grade="F";
    }
```

```
    }
}
void computeSGPA()
{
  int i;
  double sgpa;
  double totalcredits=0
  double totalgp=0;
  for(i=0;i<8;i++)
  {
    totalcredits += subject[i].credits;
    switch(subject[i].grade)
    {
      case "O": totalgp += 10* subject[i].credits;
                break;
      case "A+": totalgp += 9 * subject[i].credits;
                 break;
      case "A": totalgp += 8 * subject[i].credits;
                break;
      case "B+": totalgp += 7 * subject[i].credits;
                 break;
      case "B": totalgp= 6 * subject[i].credits;
                break;
      case "C": totalgp += 5 * subject[i].credits;
                break;
      case "F": totalgp += 0 * subject[i].credits;
                break;
    }
  }
  sgpa = totalgp/totalcredits;
  System.out.println("the sgpa is :"+sgpa);
 }
}
class sgpa
{
  public static void main(String args[])
  {
```

```
        Student s1 = new Student();
        s1.getStudentDetails();
        s1.getMarks();
        s1.computeSGPA();
    }
}
```

Output: (S Gajanana Nayak 1BM22CS227)

```
Enter your name:
Gajanana
Enter your usn:
1BM22CS227
Enter the marks and credits for course 0:
marks:
90
credits:
4
Enter the marks and credits for course 1:
Marks:
91
credits:
4
Enter the marks and credits for course 2:
Marks:
99
Credits:
3
Enter the marks & credits for course 3:
Marks:
91
Credits:
3
Enter the marks & credits for course 4:
Marks:
93
Credits:
2
```

Enter the marks & credits for course 5:
Marks: 90
Credits:
01
Enter the marks & credits for course 6:
Marks:
92
Credits:
01
Enter the marks & credits for course 7:
Marks:
90
credits:
02
the sgpa is: 10.0000002

19.12.