Develop a Java program to create a class Student with members use, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student

## ALGORITHM:

- 2. READ the members usn, name, credits, marks in the method accept ().
  - 3. DISPLAY the student details in the method display ()
- 4. CALCULATE the SGPA of the student in the method calculate () using array of credits and marks calculate () using array of sqPA + 5 townse (redits) (Grade Points) / (Grade Po
- the default constructor of class Student is called.
- 6. The other methods of class Student is also called I invoked in the main class.
- 7. SGPA is DISPLAYED from the return value of calculate. 8. STOP

```
import java util . x;
class Student &
   private String uer;
   periate String name;
  private int credits [];
   porrate int marks [];
    private int n;
   roid accept ()
      Scanner 8 = new Scanner (System oin);
     System out opently ("Enter student details");
     System out . println ("USN:");
      usn = s.next();
      System . out . println ("Name : ");
      name = 8. next();
      System. out . println ("Enter the number of subjects:");
       n = 6. next Int ();
       credits = new int[n];
       marks = new int [n];
      System . out . println ("Enter credits and marks attained by the student in each subject");
      for (int i=0; i<n;i++)
        2 credits[i] = s.nextInt();
        marks[i] = sonext Int ();
  roid display()
     System. put . println ("Student details:");
     System · out · println ("USN: "+usn);
System · out · println ("Name: "+name);
     System out println ("Marks in each subject:");
```

```
for lint i=0; i<n;i++)
   Esystem out printler ("Subject"+ (2+1) +":"+ marks[1]).
 double calculate()
     int ty=0, tc=0;
     for (int i=0; i<n; i++)
        te = tc+ credits [i];
        if (marks [i] >= 50)
          ty = tep + (((marks [i]/10)+1) * credits [i]);
       3 else if (marks[i] 7=40 && marks[i] <50)
tcf = tcf + (4* credits[i]);
    return (double)typ/tc;
class Student Main
   public static roid main (String SS[]) {
     Student 51 = new Student();
        51 · accept();
       S1. display ();
      System. out. println ("SGPA:"+31. calculate ());
```