8/10/20 POOJA.13 1BM19(811) Algorithm - hab program 2. 1. Take values of usn, name, credits and marks of 6 subjects. Etc. 2. Barrign grade points to each subject. Do (grade point x eredits) for each subject. 4. Pride the obtained number with total number of credits to get sgpa. Program :import java. util. Beaunes : das student ? String usn: string name; int credits []; int marks[]; int n; void accept()

Lystem. out. printle ("Name: "); nami = s. next(); System. out. printen (" Enter the number of subjects: "); n= s. next?nt(); ordits = New int [n]; marks = new Int [n]; System. out printer l'Enter credits and marks obtained by student in each subject "); for (intizo; icn; i+t) credits [i] = s. Next Int(); marks [i] = s. next Int(); void display() System. out. println ("US(V; "+ usn);
System. out. println ("US(V; "+ usn);
System. out. println (Marks in each subject:"); for lint i=0; (cn; 1++) by stern out printle (" Marks in each subject ""); for Cintiso; i<n; itt) System.out. printlu ("Subject" + (iti)+":"
+ marksli];

double calculatell int top=0, to=0 for (intizo; ixn; itt) · tc=fc+ credits [i]; (marks[i]) = 50) tcp=tcp+(((marks[i]/10)+1)*credits[i]) 3 else if (marks [i] > = 40 & 4 marks [i] < 50) tep 2 fcp + (4 * (vedits Pi]); return (double) topl to; dan studentsgpa public static void main (String args[]) Student 31 = New Student (); st. accept(); 81 · désplay(); Bystein out. printly ("SGPA: "tsl. calculated) 0 1 Enter Student details 060111 Name: Enter number of subjects: Enter credit and mark attained by student in each subject 67 67 4 78 Student detalis USN: abell. Name: pooja Marks in each subject: Subject 1:67 Subject 2:78 Subject 3:67 Subject 4 . 78 Subject 5: 78

Sabject 6:76 SGPA:7.69

```
Studentsgpa.java Notepad
File Edit Format View Help
import java.util.Scanner;
class Student {
        String usn;
       String name;
   int credits[];
       int marks[];
        int n;
       void accept()
               Scanner s=new Scanner(System.in);
               System.out.println("Enter student details");
               System.out.println("USN:");
               usn=s.next();
               System.out.println("Name:");
               name=s.next();
               System.out.println("Enter the number of subjects:");
               n=s.nextInt();
               credits=new int[n];
               System.out.println("Enter credits and marks attained by the student in each subject");
               for(int i=0;i<n;i++)
                       credits[i]=s.nextInt();
                       marks[i]=s.nextInt();
     void display()
              System.out.println("Student details:");
              System.out.println("USN:"+usn);
              System.out.println("Name:"+name);
              System.out.println("Marks in each subject:");
              for(int 1=0;1<n;1++)
```

```
File Edit Format View Help
                System.out.println("Marks in each subject:");
                for(int i=0;i<n;i++)</pre>
                        System.out.println("Subject "+(i+1)+":"+marks[i]);
       double calculate()
               int tcp=0,tc=0;
               for(int i=0;i<n;i++)
                       tc=tc+credits[i];
                       if(marks[i] >= 50)
                       tcp=tcp+(((marks[i]/10)+1)*credits[i]);
                       else if(marks[i]>=40 && marks[i]<50)
                               tcp=tcp+(4*credits[i]);
              return (double)tcp/tc;
     class Studentsgpa
    public static void main(String args[]) {
             Student s1=new Student();
             s1.accept();
             s1.display();
             System.out.println("SGPA: "+s1.calculate());
```

```
C:\Users\Pooja K\Desktop>javac Studentsgpa.java
C:\Users\Pooja K\Desktop>java Studentsgpa
Enter student details
USN:
abc111
Name:
pooja
Enter the number of subjects:
Enter credits and marks attained by the student in each subject
67
78
67
4
78
Student details:
ISN:abc111
lame:pooja
Marks in each subject:
Subject 1:67
Mubject 2:78
Moject 3:67
```

```
Enter the number of subjects:
Enter credits and marks attained by the student in each subject
67
78
5
67
4
78
5
78
5
76
Student details:
USN:abc111
Name:pooja
Marks in each subject:
Subject 1:67
Subject 2:78
Subject 3:67
Subject 4:78
Subject 5:78
Subject 6:76
SGPA: 7.6923076923076925
```