## Algorithm for Lab Program-2:

: create a class named student ste P-1

ster-2: In student class declare usu, name, SCIPA and array credits and marks of size 8.

stel-3: create an object accept betails.

ster-4: In object accept Details SET 120.

steP-5: Refeat steP-6 while icg.

step-6: SET 1=1+1.

step-6: Input credits and marks of the student using credits[i] andmarks[i

Step-7: Enter the student's USN and Name.

step-8. Now create an object Print Details.

steP-9: Displa Print the credits, marks, warks, was in the object Print Details.

ster-10: Now create another object named Calculate SCIPA.

SteP-11: SET grade\_Points=0, sum=0, deno=0.

stel-12: SET 1=0

Step-13: Repeat step-14 while ics.

SteP-14: SET i=i+1.

steP-15; IF marks[i] >= 90.

PRETT grade\_Points = 10.

ELSE IF MarkS[i]>=80 & AND markS[i]o

ELSE IF manks[i]>=70 AND manks[i]<80. SET grade\_Points=8.

ELSEIF marks[i]>=60 AND marks[i]<70. SET grade\_Points=7.

ELSEIF marks[i]>=80 AND marks[i]<60
SET grade\_Points=6.

ELSEIFMANKSCIJ>=40 AND marksCiJ<50 SET grade\_Points=8.

ELSE SET grade\_Points=0.

step-16: SET sum += grade\_Points x creditali].

steP-17; SET denot = credits [i].

SteP-18; SET SGIPA = Sum/devo

SteP-19: SET PRINT SUIPA.

step-20: create a main dass student\_main

step-21: call all the student details from the accept details object. step-22: Print student details by calling Print details object in student main class.

step-33: Display sorPA of the student by calling calculate scrPA dos method.

## Lab-Program - 2

imPort dava. util. Scanner; class student

Private intusn;

Private string name;

Private double SCIPA;

Private int [] credits = new int[8]; Private int [] marks = new int[8];

Void accept Details ().

system.out. Printin (" In Accept Student details by scanner si=vow scanner (system.in);

System. out. Println ("In Enter the credits of student for all subjects (");

for (int i=0; i28; i++)

credits [i]=s1. next Int();

System. out. Printly ("In Enter the credits of student for all subjects (n");

```
for (int 1=0; 128; 14+)
 creditation = si-viextante):
system out Rivilla ("In Enter the Marks of
                 student for all subjects in").
 for (intico; ics; it+)
 marks[i]=s1.nextInt();
3yotem.out. RintIn("In Enter Student's USNIND,
  usn=51.nextInt().
System. out. Printly ("In Enter student's Name (");
  name= 51. next tut():
void Print Details ()
system. out. Println ("In the Credits of the student
                     for all subjects are: (n));
 for (int 10; 128; i++)
  588tem.out. Println (credits [i]);
system.out. Printly Culuthe Marks of the student
                        for all subjects are: (vi);
Esystem. out. Println(marks[i]);
  system. out. Print In ("USN:") + usn);
  system.out. Printly ("Name: "+vame);
```

```
void calculate sonPAC)
int grade_Points=0;
int sum-o;
int deno=0;
for (int i=0; i28; itt)
  if (mark3[i]>=90)
   grade_Points=10;
  else it (marks[i]>=80 && marks[i]290]
  else if (marks[i]>=70 Rf marks[i]280)
 else if (marks[i]>=60 fl marks[i]>70)
 grade_Points=7;
else if (marks[i]>=50 && marks[i]260)
 grade_Points=6;
else it (marks[i]>=40 RR marks[i] 250)
 grade-Points=5;
```

```
else
  grade-Points=0;
  Sum + = grade_Points * Gredits [1];
   denot = credit & [i];
 SOPA = Sum/deno;
  system. out. Printly ("SOTPA: "+SGTPA);
class student _ Mamain
   Public static void main (string args[])
  3 student SI=new Student ();
     SI. Print Details ().
     SI. CalculateSGrPA();
3
   outPut
 Accept student Details
 Enter the credits of student for all subjects
   44443322
  Enter the Marks of student for all subjects
  96 88 92 75 65 99 85 95
  Enter Student's USN
   12
  Enter Student's Name
   Rabul
```

```
credits of the student for all subjects are.
 4
 4332
The marks of the student for all subjects are:
 90
     ask gat hater 7 11) alter 19. the overteld
 95
 Name, Rahal
SGDA
 USN: 12
                     ++1 30 (3) ( 10 ( 1) 10 ( 1)
 SGPA: 9.0
```