## OOJ WEEK-4 PROGRAMS

LAB-2

Develop a gava program to acate a class student with members usn, name, an array acates and an array marks. Indude methods to accept and desplay details and a method to calculate SGPA of a student.

Algasahm ;

Step 1: Start

Step 2: Input strelent details E.e, USn, name, credits and marks (of each of 5 subjects in 2 different arrays)

Step 3: Desplay the Swelent details

Step 4:- 

Else & smarks > 90, g=10

else & smarks >= 80 & smarks < 90, g=9

else & smarks >= 70 & smarks < 80, g=8

else & smarks >= 60 & smarks < 70, g=7

else & smarks >= 50 & smarks < 60, g=7

else & smarks >= 50 & smarks < 60, g=6

else & smarks >= 50 & smarks < 50, g=5

else & smarks >= 20

Step 5 & Get value of g and calculate sum of (g roudets) (sum)

Step 6: Calculate 8gpa = Sum/sum2

Step 7: Pront sgpa of Student

```
impart gava. util. ";
class Student &
   bearate Strong usn;
   passate Strang name;
  parate out and [];
   prevate out marks ();
    prevate ont n;
    haid accept ()
     Scanner 52 new Scanner (System. En);
    System. aut, prontin 1" Enter Student details ");
    aystem. aut. peonter (" USN of the strollent: ");
     usn = S. next ();
    System. aut. padln ("Name of student: ");
    name = 8, next ();
    System, aut, parten l'Euter the number of subjects: ");
    n= S. nextlent ();
    Cred = new ont [n];
     marks = new out [n];
    Lystem, out partle (" Enter credits and marks attained by the
                           student En each subject (aut of 100 );
    for (ent 120; (<n; (++).
         ad(0) = s. nextlnt();
        maches [E] = s. nextlnt ();
```

```
vaid display ()
   System. aut. prontin (" Student details: ");
   Bystem, aut. prouten (" USN: " +usn);
  System. aut parten (" Name: "+ name);
  Bystom. aut. prontln ("Marks on each subject:");
  for (out 8=0; 82n; 8++)
     System, aut, prontin (" Subject " + (2+1) +": " + marks [1]);
 double calculate()
      8nt tap=0, tc=0;
      for (out 820; icn; i++)
         to 2 tot cred [8];
         of ( masks [8] 7= 50)
        top= top+ ((( masks[E]/10+1) " Gealt [E]);
       else & ( masks [6] > 2 40 & 8 masks [6] < 50)
          tep= tep+ (4* aeast (2));
       Return (dauble) tap /tc;
```

```
Class Maon
 public State word man ( Strong ss ( )) {
     Stodent 91 - new swdent ();
     51. accept ();
     S1. desplay ();
    System. aut. protin (" SGPA: "+31. (adulate ());
```