```
" + name + "\usn :" + usn + "\n Marks
for (int i = 0; i< marks.length; i++)
{
  System.out.println(marks[i]);
}
}
}

public class student m {
  public static void main(String
    args[])
  {
    Student S1 = new Student();
    S1.getDetails();
    S1.printDetails();
    S1.SGPA();
  }
}
```

```
for(int i=0; i<marks.length; i++)
{
    if(marks[i]>=90)
        grades[i]=10;
    else if(marks[i]>=80)
        grades[i]=9;
    else if(marks[i]>=70)
        grades[i]=8;
    else if(marks[i]>=60)
        grades[i]=7;
    else if(marks[i]>=50)
        grades[i]=6;
    else if(marks[i]>=40)
        grades[i]=4;
    else
        grades[i]=0;
}
for(int i=0; i<credits.length; i++)
{
    sum+=grades[i]*credits[i];
    tcred+=credits[i];
}
sgpa=sum/tcred;
System.out.println("SGPA : "+sgpa);
}
void printDetails()
public static void ma
{
System.out.println("Details in Name:
```

```
impord java.util.Scanner;
class Student {
 private String usn, name;
 private int credits[], marks[];
 void getDetails()
 {
    System.out.println("Enter name
    Scanner scr = new Scanner(System.in);
    name = scr.next();
    System.out.println("Enter usn:");
    usn = scr.next();
    System.out.println("Enter number
    of subjects:");
    int n = scr.nextInt();
    credits = new int[n];
    marks = new int[n];
    System.out.println("Enter credits
    for(int i=0; i<n; i++)
       credits[i]= scr.nextInt();
    System.out.println("Enter marks:");
    for(int i=0; i<n; i++)
       marks[i] = scr.nextInt();
}
void SGPA()
{
    float sum = 0.0f, sgpa;
    int tcred=0, grades[];
    grades = new int[marks.length];
```

if marks[i] > 70 and < 80
then store 8 in grades[i]
if marks[i] > 60 and < 70
then store 7 in grades[i]
if marks[i] > 50 and < 60
then store 6 in grades[i]
if marks[i] > 40 and < 50
then store 4 in grades[i]
else store 0 in grades[i]
initialize sum, tcred to 0.
↳ loop for 0 to credits.length - 1
sum = sum + grades[i] * credits[
tcred = tcred + credits[i]
sgp = sum / tcred
display sgpa.

display(): To display all the details of the student.

→ create a second class 'studentm'
→ create main function.
→ create object of student class 'st'
→ call all the member functions of student class using st.

Week 4:

Algorithm:

→ Create class Student write private data members: String usn, String name, int credits[], int marks[]

→ create member functions:

getDetails(): to accept all the data members.

StPA(): To calculate the SGPA() of the student: run loop - from 0 to marks.length create new array called grades[] with same number of elements as credits.

loop: 0 to credits.length:

if marks[i] > 90 then store 10 in grades[i]

if marks[i] > 80 and < 90 then store 9 in grades[i]