lab-2 :-

* Program :-

```
import java.util.*;
class student
{
String usn, name;
static int credits[];
static double marks[];
void input(int n)
{
Scanner sc = new scanner(System.in);
System.out.println("Enter usn and name");
USN = sc.nextline();
name = sc.nextline();
system.output.Println("Enter the marks along with
  Credits");
for(int i=0; i<n; i++)
{
marks[i] = sc.nextdouble();
Credits[i] = sc.nextint();
System.out.println();
}}
double Calculate(int n)
{
```

```
int c, cred = 0;
double tot, total = 0.0;
for (int i = 0 ; i < n; i++)
{
  tot = marks[i];
if (tot >= 90)
    c = 10;
  else if (tot >= 80)
  c = 9;
  else if (tot >= 70)
  c = 8;
  else if (tot >= 60)
  c = 7;
  else if (tot >= 50)
  ~~else if~~ c = 6;
  else if (tot >= 40)
  c = 4;
  else
  c = 0;
  total = total + (c * credits[i]);
cred = cred + credits[i];
}
total = total / cred;
return (total);
```

```
}
void display (int n, double total)
{
System.out.println("name of student: "+name);
System.out.println("usn of student : "+usn);
System.out.println("marks of student along
  with credits of course");
for(int i=0; i<n; i++)
{
System.out.println(marks[i]+" "+credits[i]);
}
System.out.println("gpa of student : "+total);
}
Public static void main(String args[])
{
Scanner sc = new Scanner(System.in);
Student obj = new student();
system.out.println("Enter no of course");
int n= sc.nextInt();
Credits = new int[n];
marks = new double[n];
obj.input(n);
double total = obj.calculate(n);
obj.display(n, total); } }
```

* Algorithum :-

1. Take values of usn, name, credits and marks of 6 subjects.
2. assign grade Points to each subject.
3. Do (grade point x credits) for each subject.
4. Divide the obtained number with total number of credits to get SgPa.

```
C:\Users\Admin\ja>javac student.java

C:\Users\Admin\ja>java student
enter no of course
3
enter usn and name
1bm19cs145
saurab
enter marks along with credits
80 2

75
4

75
3

name of student : saurab
usn of student : 1bm19cs145
marks of student along with credits of course
80.0   2
75.0   4
75.0   3
sgpa of student : 8.222222222222221
```