lab program 2

2.
```
import java.util.*;
class student {
private string usn;
private string name;
private int cred[];
private int marks[];
private int n;
 void accept()
{
Scanner s= new Scanner(System.in);
System.out.println("Enter student details:");
System.out.println("USN of the student");
usn = s.next();
System.out.println("Name of student:");
name = s.next();
System.out.println("Enter the number of subjects
                    :");
n= s.nextInt();
cred= new Int[n];
marks = new Int [n];
System.out.println("Enter the credits and
marks attained by the student in each
Subject (out of 100)");
for(int i=0; i<n; i++)
{
 cred[i]= s.nextInt();
marks[i] = s.nextInt();
}
}
Void display()
{
System.out.println("student details:");
System.out.println("USN :"+usn);
```

```
for(int i=0; i<n; i++)
 {
System.out.println("subject "+(i+1)+": "+marks[i]);
 }
}
double calculate()
 {
int tcp=0, tc=0;
for(int i=0; i<n; i++)
 {
tc=tc+cred[i];
if (marks[i]>=50)
 {
tcp=tcp+(((marks[i]/10)+7)*cred[i]);
}
else if (marks[i]>=40 && marks[i]<50)
 {
tcp=tcp+(4*cred[i]);
}
return (double)tcp/tc;
}
}
class Main
 {
public static void main(String ss[]) {
Student s1 = new student();
s1.accept();
s1.display();
System.out.println("SGPA : "+s1.calculate());
 }
}
```