```
import java.util.*;
class Student {
      private String usn;
      private String name;
    private int credits[];
      private int marks[];
      private int n;

      void accept()
      {
            Scanner s=new Scanner(System.in);
            System.out.println("Enter student details");
            System.out.println("USN:");
            usn=s.next();
            System.out.println("Name:");
            name=s.next();
            System.out.println("Enter the number of subjects:");
            n=s.nextInt();
            credits=new int[n];
            marks=new int[n];
            System.out.println("Enter credits and marks attained by the student in each subject");
            for(int i=0;i<n;i++)
            {
                  credits[i]=s.nextInt();
                  marks[i]=s.nextInt();
            }
      }
```

```
void display()
	{
		System.out.println("Student details:");
		System.out.println("USN:"+usn);
		System.out.println("Name:"+name);
		System.out.println("Marks in each subject:");
		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+credits[i];
			if(marks[i]>=50)
			{
			tcp=tcp+(((marks[i]/10)+1)*credits[i]);
			}
			else if(marks[i]>=40 && marks[i]<50)
			{
				tcp=tcp+(4*credits[i]);
			}
		}
		return (double)tcp/tc;
	}
}
```

```
public class Main
	{

	public static void main(String ss[]) {
		Student s1=new Student();
		s1.accept();
		s1.display();
		System.out.println("SGPA: "+s1.calculate());
	}

	}
```

```
Enter student details
USN:
123
Name:
ABC
Enter the number of subjects:
2
Enter credits and marks attained by the student in each subject
12
13
14
15
Student details:
USN:123
Name:ABC
Marks in each subject:
Subject 1:13
Subject 2:15
SGPA: 0.0


...Program finished with exit code 0
Press ENTER to exit console.
```

PageWork

Lakshmi S Kumar
1BM19CI054

```
import java.util.*;
class Student {
Private String usn;
Private String name;
Private int credits
 Private int marks[];
   Private int n;
  void accept
 {
 Scanner S = new Scanner (System.in);
 System.out.println ("Enter student details
     usn = S.next ();
        System.out.println ("Name")
        name = S.next ();
            System.out.println ("Enter the number of Subjects")
     n = S.nextInt ();
     credits = new int [n];
      marks = new int [n];
   System.out.println ("Enter credits and marks
attained by the student in each subject");
for (int i = 0 ; i<n; i++);
   {
 credit [i] = S.nextInt ();
 marks [i] = S.nextInt ();
   }
 }
 void display ()
   {
 System.out.println ("Student details");
 System.out.println (" USN:" + usn);
System.out.println ("Name: " + name);
   System.out.println ("Marks in each subject");
```

```
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 + credits[i]
 if (marks[i]>=50
  {
  tcp= tcp+((marks[i]/10)* credits[i]
  }
  }
return (double) tcp/tc
  }
}
Public class main
{
Public static void main (String ss[]){
Student s1 = new student ();
 s1 accept ().
 s1 display ().
System.out.println("SGPA :"+s1 calculate ()+
}
}
```

Algorithm

Enter USN, name, subject, credits and marks

Apply in formula: SGPA

Calculate SGPA percentage

Print the SGPA percentage