```
import java.util.Scanner;
class Student
{
String usn, name;
int n;
int marks[];
int credits[];
void inputMarks()
{
Scanner input=new Scanner(System.in);
System.out.print("Enter USN: ");
usn=input.nextLine();
System.out.print("Enter Name: ");
name=input.nextLine();
System.out.print("Enter number of subjects: ");
n=input.nextInt();
credits=new int[n];
marks=new int[n];
for(int i=0;i<n;i++)
{
System.out.print("\nEnter marks of subject "+(i+1)+" : ");
marks[i]=input.nextInt();
System.out.print("\nEnter credits of subject "+(i+1)+" : ");
credits[i]=input.nextInt();
}
}
int gradePoints(int marks)
```

```
{
if(marks>=90)
return 10;
else if(marks>=80)
return 9;
else if(marks>=70)
return 8;
else if(marks>=60)
return 7;
else if(marks>=50)
return 6;
else
return 0;
}
double sgpa()
{
double totalcredits=0,sum=0;
for(int i=0;i<n;i++)
{
totalcredits=totalcredits+credits[i];
sum=sum+gradePoints(marks[i])*credits[i];
}
return (sum/totalcredits);
}
void display()
System.out.println("USN: "+usn);
```

```
System.out.println("Name: "+name);
}
}
class SGPA
{
public static void main(String[] args)
{
Student student=new Student();
student.inputMarks();
student.display();
System.out.println("SGPA: "+student.sgpa());
}
}
OUTPUT:
Enter USN: 1BM22CS078
Enter Name: Charan G
Enter number of subjects: 8
Enter marks of subject 1:99
Enter credits of subject 1:4
Enter marks of subject 2:98
Enter credits of subject 2:4
Enter marks of subject 3:94
```

Enter credits of subject 3:3

Enter marks of subject 4:91

Enter credits of subject 4:3

Enter marks of subject 5:87

Enter credits of subject 5:1

Enter marks of subject 6:94

Enter credits of subject 6:3

Enter marks of subject 7:92

Enter credits of subject 7:1

Enter marks of subject 8:98

Enter credits of subject 8:1

USN: 1BM22CS078

Name: Charan G

SGPA: 9.95