

```
162 //Student
163 import java.util.*;
164 class Student{
165     String name;
166     String usn;
167     int ac[];
168     int am[];
169     int n;
170     double sgpa;
171     void getdetails(){
172         Scanner in= new Scanner(System.in);
173         System.out.println("Enter name and usn respectively:");
174         name=in.next();
175         usn=in.next();
176         System.out.println("Enter the number of subjects : ");
177         n =in.nextInt();
178         System.out.println("Enter subject credits and subject marks respectively:");
179         ac=new int[n];
180         am=new int[n];
181         for(int i =0;i<n;i++){
182             System.out.println("Enter credits of subject "+(i+1)+" : ");
183             ac[i]=in.nextInt();
184             System.out.println("Enter marks of subject "+(i+1)+" : ");
185             am[i]=in.nextInt();
186             if(am[i]>100||am[i]<0||ac[i]>5||ac[i]<0){
187                 System.out.println("Enter valid values : ");
188                 System.out.println("Enter credits of subject "+(i+1)+" : ");
189                 ac[i]=in.nextInt();
190                 System.out.println("Enter marks of subject "+(i+1)+" : ");
191                 am[i]=in.nextInt();
192             }
193         }
194     }
```

```
195 void printDetails(int n){
196     System.out.println("\nUSN:"+ usn);
197     System.out.println("NAME:"+name);
198     System.out.println("Subject No. : MARKS\tCREDITS");
199     for(int i=0;i<n;i++){
200         System.out.println("Subject "+(i+1)+" : "+am[i]+\t"+ac[i]);
201     }
202 }
203 void calsgpa(){
204     printDetails(n);
205     double sum=0,sumc=0;
206     for(int i=0;i<n;i++){
207         sum=(am[i]/10+1)*ac[i]+sum;
208         sumc=ac[i]+sumc;
209     }
210     sgpa=sum/sumc;
211     System.out.printf("SGPA :"+sgpa);
212 }
213 }
214 }
215 class Series{
216     public static void main(String args[]){
217         Student s= new Student();
218         s.getdetails();
219         s.calsgpa();
220     }
221 }
222 }
```

```
C:\Users\Shreshtha Aggarwal\Desktop\java>javac Series.java
```

```
C:\Users\Shreshtha Aggarwal\Desktop\java>java Series
```

```
Enter name and usn respectively:
```

```
Ram
```

```
1BM19CS109
```

```
Enter the number of subjects :
```

```
2
```

```
Enter subject credits and subject marks respectively:
```

```
Enter credits of subject 1 :
```

```
2
```

```
Enter marks of subject 1 :
```

```
23
```

```
Enter credits of subject 2 :
```

```
3
```

```
Enter marks of subject 2 :
```

```
89
```

```
USN:1BM19CS109
```

```
NAME:Ram
```

```
Subject No. : MARKS      CREDITS
```

```
Subject 1 : 23    2
```

```
Subject 2 : 89    3
```

```
SGPA :6.6
```

```
C:\Users\Shreshtha Aggarwal\Desktop\java>_
```