

```
import java.util.Scanner;
```

```
class Student;
```

```
{ private String usn;  
  private String name;  
  private int credits[];  
  private int marks[];  
  private double sgpa;
```

```
void getDetails(int n)
```

```
{ System.out.println("Enter students details: ");
```

```
  Scanner get = new Scanner(System.in);
```

```
  System.out.println("USN:");
```

```
  usn = get.next();
```

```
  System.out.println("Name:");
```

```
  name = get.next();
```

```
  marks = new int[n];
```

```
  credits = new int[n];
```

```
  System.out.println("Enter marks and credits respectively:");
```

```
  for(int i=0; i<n; i++)
```

```
  { System.out.println("In Subject " + (i+1));
```

```
    marks[i] = get.nextInt();
```

```
    credits[i] = get.nextInt();
```

```
  }
```

```
}
```

```
void calcsgpa(int n)
```

```
{ double sum=0, sgpa, sumc=0;
```

```
  for(int i=0; i<n; i++)
```

```
  { sum = (marks[i]/10+1)*credits[i] + sumc;
```

```
    sumc = credits[i] + sumc;
```

```
  }
```

```
  sgpa = sum / sumc;
```

```
  System.out.println("SGPA: " + sgpa);
```

```
}
```

```
void printDetails(int n)
```

```
{ System.out.println("IDEN : " + usn);
  System.out.println("NAME : " + name);
  System.out.println("MARKS & CREDITS");
  for(int i=0; i<n; i++)
  { System.out.println(marks[i] + " & " + credits[i]); }
  calcspacs();
}
```

```
}
```

```
class StudentMain
```

```
{ public static void main(String args[])
  { int n;
    System.out.println("Enter the no of subjects:");
    Scanner get = new Scanner(System.in);
    n = get.nextInt();
    Student s1 = new Student();
    s1.getDetails(n);
    s1.printDetails(n);
  }
}
```