

```

1  package CIE;
2  import java.util.Scanner;
3
4  public class Student
5  {
6      int usn;
7      String name;
8      int sem;
9      Scanner ss=new Scanner(System.in);
10     public void acceptDetails()
11     {
12         System.out.println("Enter the Name:\n");
13         name=ss.nextLine();
14         System.out.println("Enter the USN:\n");
15         usn=ss.nextInt();
16         System.out.println("Enter the SEM:\n");
17         sem=ss.nextInt();
18     }
19     public void displayDetails()
20     {
21         System.out.println("Name :"+name);
22         System.out.println("USN :"+usn);
23         System.out.println("SEM |:"+sem);
24     }
25 }
26
27
28
    
```

```
1 package CIE;
2 import java.util.Scanner;
3 public class internals extends CIE.Student
4 {
5     public int cie_marks[]=new int[5];
6     Scanner ss =new Scanner (System.in);
7     public void acceptDetails()
8     {
9         for(int i=0;i<5;i++)
10         {
11             System.out.println("Enter the CIE Marks(out of 50) of Subject"+(i+1));
12             {
13                 cie_marks[i]=ss.nextInt();
14             }
15         }
16     }
17 }
18
19
20
```

```

1 package SEE;
2 import CIE.*;
3 import java.util.Scanner;
4
5 public class external extends CIE.Student
6 {
7     public int sem_marks[]=new int[5];
8     Scanner ss =new Scanner(System.in);
9     public void acceptDetails()
10    {
11        for(int i=0;i<5;i++)
12        {
13            System.out.println("Enter the SEE Marks(Out of 100) of Subject"+(i+1));
14            {
15                sem_marks[i]=ss.nextInt();
16            }
17        }
18    }
19 }
20
21
    
```

```
1  import CIE.*;
2  import SEE.*;
3  import java.util.*;
4
5  class marks
6  {
7      public static void main(String sss[])
8      {
9          int i,j,n;
10         int tot[]=new int[5];
11         Scanner ss=new Scanner(System.in);
12         System.out.println("Enter the total number of students :\n");
13         n=ss.nextInt();
14         CIE.Student st[]=new CIE.Student[n];
15         CIE.internals c[]= new CIE.internals[n];
16         SEE.external s[]=new SEE.external[n];
17         for(i=0;i<n;i++)
18         {
19             System.out.println("ENTER THE STUDENT"+(i+1)+" DETAILS");
20             st[i]=new CIE.Student();
21             st[i].acceptDetails();
22             c[i]=new CIE.internals();
23             c[i].acceptDetails();
24             s[i]=new SEE.external();
25             s[i].acceptDetails();
26         }
27         for(i=0;i<n;i++)
28         {
29             System.out.println("DETAILS OF THE STUDENT "+(i+1));
30             st[i].displayDetails();
31             for(j=0;j<5;j++)
32             {
33                 tot[j]=(c[i].cie_marks[j]+(s[i].sem_marks[j]/2));
34                 System.out.println("Total marks in subject"+(j+1)+" is "+tot[j]);
35             }
36         }
37     }
38 }
```

Enter the total number of students :

1

ENTER THE STUDENT1 DETAILS

Enter the Name:

Rahul

Enter the USN:

12

Enter sem:

3

Enter the CIE Marks(out of 50) of Subject1

40

Enter the CIE Marks(out of 50) of Subject2

41

Enter the CIE Marks(out of 50) of Subject3

44

Enter the CIE Marks(out of 50) of Subject4

45

Enter the CIE Marks(out of 50) of Subject5

50

Enter the SEE Marks(Out of 100) of Subject1

90

Enter the SEE Marks(Out of 100) of Subject2

92

Enter the SEE Marks(Out of 100) of Subject3

94

Enter the SEE Marks(Out of 100) of Subject4

96

Enter the SEE Marks(Out of 100) of Subject5

100

DETAILS OF THE STUDENT 1

Name :Rahul

Usn :12

Sem :3

Total marks in subject1 is 85

Total marks in subject2 is 87

Total marks in subject3 is 91

Total marks in subject4 is 93

Total marks in subject5 is 100

(program exited with code: 0)

Press any key to continue . . .