```
package CIE;
import java.util.*;
public class student
{ public int sem;
  public string usn;
  public string name;
}
```

```
package CIE;
public class internals
{ public int marks[] = new int[5];
    public void acceptint()
    {
```

9b

```
package CIE;
public class student {
    protected String usn;
    protected String name;
    protected int sem;

    public student(String usn, String name, int sem) {
        this.usn = usn;
        this.name = name;
        this.sem = sem;
    }
}

public class Internals extends student {
    int[] internalMarks;
    public Internals(String usn, String name,
int sem, int[] internalMarks) {
        super(usn, name, sem);
        this.internalMarks = internalMarks;
    }
}
```

```
package SEE;
import CIE.student;
public class External extends student {
    int[] seeMarks;
    public External(String usn, String name, int
sem, int[] seeMarks) {
        super.(usn, name, sem);
        this.seeMarks = seeMarks;
    }
}
```

```
import CIE.Internals;
import SEE.External;

Public class FinalMarks{
  public static void main (String @[] args)
  { int n=5;
int [][] finalmarks = new int [n][5];
Internal [] internalarray = new Internals[n];
External [] externalsArray = new External[n];

for(int i=0 ; i<n;i++) {
   String usn = "USN " + (i+1);
   String name = "Student " + (i+1);
   int sem=2;

   int [] internalMarks = {17, 18, 15, 19, 20};
   int [] seeMarks = {80, 85, 90, 95, 100};

internalsArray[i] = new Internals (usn, name,
   sem, internalMarks);

externalsArray[i] = new External (usn, name,
   usn, sem, seeMarks);

for(int j=0 ;j<5;j++){
finalMarks[i][j] = internalsArray[i].internal
                   Marks[i] + externalsArray[i].
                   seeMark[j];
  }
}
```

```
System.out.println("final marks for n students in all five courses:");
for(int i=0;i<n;i++) {
  System.out.print("student "+(i+1)+": ");
  for(int j=0;j<5;j++) {
    System.out.print(finalMarks[i][j]+" ");
  }
  System.out.println();
}
}
}
```

OUTPUT:

final marks for n students in all five courses:

student 1 : 144 207 181 73 209

student 2 : 215 116 248 182 176

student 3 : 70 46 79 70 137

student 4 : 112 99 90 92 173

student 5 : 64 173 83 186 83

```
Enter the number of students
1
Enter Details of student 1
Enter the student's USN,Name and Semester
aNJALI
1BM22CS004
3
Enter Internal Marks and Semester End Marks of subject1
40
40
Enter Internal Marks and Semester End Marks of subject2
40
40
Enter Internal Marks and Semester End Marks of subject3
30
50
Enter Internal Marks and Semester End Marks of subject4
35
44
Enter Internal Marks and Semester End Marks of subject5
45
33
Final marks of1BM22CS004
Course1=80
Course2=80
Course3=80
Course4=79
Course5=78
ANJALI 1BM22CS043
```