

Lab Prog - 6.

```
import java.util.*;
package CIE;
class Student
{
    String usn;
    String name;
    int sem;
    Student (String name, String usn, int sem)
    {
        this.name = name;
        this.usn = usn;
        this.sem = sem;
    }
    void getdetails ()
    {
        System.out.println ("Student name: " + this.name);
        System.out.println ("Student usn: " + this.usn);
        System.out.println ("Student Semester: " + this.sem);
    }
}
```

```
class Internals
{
    int marks[] = new int[5];
    void setmarks ()
    {
        for (int i = 0; i < n; i++)
        Scanner scan = new Scanner (System.in);
        for (int i = 0; i < 5; i++)
        {
            marks[i] = scan.nextInt();
        }
    }
}
```

import java.util.*

import package CIE.*; import CIE.Student;

package SEE;

class External extends Student

{ int marks[] = new int[5];

void setmarks()

{ Scanner scan = new Scanner(System.in);

for(int i=0; i<5; i++)

{ marks[i] = scan.nextInt(); }

}

}

import java.util.*;

import CIE.*;

import SEE.*;

class Democlass {

public static void main (String args[]) {

Scanner scan = new Scanner(System.in);

int n, sem; String name, urn;

~~int final_marks[];~~

System.out.println("Enter the number of students");

n = scan.nextInt();

~~int final_marks[] = new int[n];~~

~~Student s = new Student[n];~~ ~~Internal i[] = new Internal[n];~~

Student s[] = new Student[n]; External e[] = new External[n];

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

{ ~~SE~~ System.out.println("Enter name, urn and semester of student: " + (i+1));

name = scan.nextLine();

urn = scan.nextLine();


```
sem = scan.nextInt();
```

```
s[i] = new Student(name, sem, sem);
```

```
* System.out.println("Enter internal marks of for 5 subjects");
```

```
* in[i] = new Internals();
```

```
in[i].setmarks();
```

```
System.out.println("Enter external marks of for 5 subjects");
```

```
e[i] = new External();
```

```
e[i].setmarks();
```

```
}
```

So So = 100.

100

```
int final_marks[n][5] = new int[n][5];
```

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

```
for (j=0; j<5; j++)
```

```
{  
    final_marks[i][j] = in[i].marks[j] + (e[i].marks[j]/2);  
}
```

```
for(i=0; i<n; i++)  
{ System.out.println("Student + (i+1) + "details are");  
  s[i].getdetails();  
  System.out.println("Final marks in 5 subjects are = ");  
  forfor(j=0; j<n; j++)  
  { System.out.println(final_marks[j]); for  
    System.out.println(final_marks[i][j]);  
  }  
}
```

