

Lab-6

```
import java.util.*;

package CTF;

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("Semester: " + this.sem);
    }
}

class Internal {
    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.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, csn;
        System.out.println("enter the no. of student");
        n = scan.nextInt();
        Student s[] = new Student[n];
        Internal in[] = new Internal[n];
        External e[] = new External[n];
        for (int i = 0; i < n; i++)
            System.out.println("enter name, csn, and semester of Student: " + (i+1));
    }
}
```



```

name = scan.nextLine();
usr = scan.nextLine();
Sem = scan.nextInt();
s[i] = new Student(name, usr, sem);
System.out.println("enter internal marks
for s subjects");
in[i] = new Internal();
in[i].setmarks();
System.out.println("Enter external marks
of s subjects");
e[i] = new External();
e[i].setmarks();
}
int final_marks[][] = new int[n][s];
for (int i = 0; i < n; i++) {
    for (int j = 0; j < s; j++) {
        final_marks[i][j] = in[i].marks[j] +
        (e[i].marks[j] / 2);
    }
}
for (int i = 0; i < n; i++) {
    System.out.println("Student " + (i + 1) + " details are")
    s[i].getdetails();
    System.out.println("Final marks of s subjects
are : ");
    for (int j = 0; j < s; j++) {
        System.out.println(final_marks[i][j]);
    }
}
}

```

