

## Program - 6

```
package CIE;
```

```
public class Student {  
    private String name, usn;  
    private int sem;  
    public Student (String name, String  
        usn, int sem) {  
        this.name = name;  
        this.usn = usn;  
        this.sem = sem;  
    }
```

```
    public Student () {  
        name = usn = null;  
        sem = 0;  
    }
```

```
@Override
```

```
public String toString () {
```

```
    return String.format ("Name : " + name  
        + "\n USN : " + usn + "\n Semester : "  
        + sem + "\n");
```

```
    }  
}
```

```
package CIE;
```

```
public class Internals {  
    private int marks[];  
    public Internals(int arr[]) {  
        marks = new int[5];  
        for (int i = 0; i < 5; i++)  
            marks[i] = arr[i];  
    }  
    public int getMark(int i) {  
        return marks[i];  
    }  
}
```

```
package SEE;
```

```
import CIE.Student; import CIE.Student;  
public class External extends Student {  
    private int marks[];  
    public External(int arr[]) {  
        marks = new int[5];  
        for (int i = 0; i < 5; i++)  
            marks[i] = arr[i];  
    }  
    public int getMark(int i) {  
        return marks[i];  
    }  
}
```

```
import java.util.Scanner;
import CIE.*;
import SEE.*;
```

```
public class Main {
```

```
    public static void main (String args[]) {
```

```
        Scanner in = new Scanner (System.in);
        int sem, n, i, j;
```

```
        String name, usn;
```

```
        System.out.print("Enter number of  
students :");
```

```
n = n = in.nextInt();
```

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

```
        int arr[] = new int[5];
```

```
        Student stu[] = new Student[n];
```

```
        Internals internal[] = new Internals[n];
```

```
        External ext[] = new External[n];
```

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

```
            System.out.println("----- Student " + (i+1) +  
                " ----- \n");
```

```
            System.out.print("Enter name : ");
```

```
name = in.nextInt();
```

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

```
            System.out.print("Enter USN : ");
```

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



```

System.out.print("Enter semester : ");
sem = in.nextInt();
stu[i] = new Student(name, uen, sem);
for (j = 0; j < 5; j++) {
    System.out.print("Enter CIE marks  
in course " + (j+1) + " : ");
    arr[j] = in.nextInt();
}
System.out.println("\n\n");
internal[i] = new Internals(arr);
for (j = 0; j < 5; j++) {
    System.out.print("Enter SEE marks  
in course " + (j+1) + " : ");
    arr[j] = in.nextInt();
}
ext[i] = new External(arr);
}
in.close();
for (i = 0; i < n; i++) {
    for (j = 0; j < 5; j++)
        marks[i][j] = internal.getMark(j)
            + ((ext[i].getMark(j)) / 2);
    System.out.println("----- STUDENT  
DETAILS ----- \n\n");
    for (i = 0; i < n; i++) {
        System.out.println("----- Student  
" + (i+1) + " ----- \n\n");
        System.out.println(stu[i].toString());
    }
}

```

classmate

Date  
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```
for (j=0; j<5; j++) {  
    in    System.out.println(" Marks scored  
    course " + (j+1) + " : " + marks[i][j]);  
}  
    System.out.println(" --- \n\n");  
}  
}
```

## FOLDER STRUCTURE;

prog 6

