

Lab - Program - 6

```
import java.util.*;
```

```
package CIE;
```

```
class package
```

```
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 Internals.
```

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

```
void setmarks()
```

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

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

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

```
}
```

```
}
```

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```
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, res;
        System.out.println("Enter the no. of students");
        n = scan.nextInt();
```

```
        Student s[] = new Student[n];
        Internals in[] = new Internals[n];
        External e[] = new External[n];
```




```
for (int i=0; i<n; i++)  
{  
    System.out.println("Enter name, usn and semester of  
        student: " + (i+1));  
    name = scan.nextLine();  
    usn = scan.nextLine();  
    sem = scan.nextInt();  
    S[i] = new Student(name, usn, sem);  
    System.out.println("Enter internal marks for 5 subjects");  
    in[i] = new Internals();  
    in[i].setmarks();  
    System.out.println("Enter external marks of 5 subjects");  
    e[i] = new External();  
    e[i].setmarks();  
}
```

```
int final-marks[][] = new int[n][5];  
for (int i=0; i<n; i++)  
{  
    for (int j=0; j<5; 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 in 5 subjects are:");  
    for (int j=0; j<5; j++)  
    {  
        System.out.println(final-marks[j][i]);  
    }  
}
```

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