

17/11/20

IBM19CS006

Week 9 Lab 6

```
package CIE;
import java.util.Scanner;
public class Student
{
    public String usn, name;
    public int sem;

    public void getdata() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter student usn name: ");
        usn = sc.next();
        System.out.println("Enter student name: ");
        name = sc.next();
        System.out.println("Enter semester: ");
        sem = sc.nextInt();
    }

    public void printdata() {
        System.out.println("Student Details: ");
        System.out.println("USN: " + usn);
        System.out.println("Name: " + name);
        System.out.println("Semester: " + sem);
    }
}
```

①

```

package CIE;
import java.util.Scanner;
public class Internals extends Student
{
    public int cie[] = new int[5];

```

```

    public void getCie() {
        for (int i = 0; i < 5; i++) {
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter subject " + (i+1) + " cie marks:");
            cie[i] = new sc.nextInt();
        }
    }
}

```

```

package SEE; import CIE.*;
import java.util.Scanner;
public class Externals extends CIE.Student
{

```

```

    public int see[] = new int[5];
    public void getsee() {
        for (int i = 0; i < 5; i++) {
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter subject " + (i+1) + " see marks:");
            see[i] see[i] = sc.nextInt();
        }
    }
}

```



```
import CIE.*;
import SEE.*;
```

```
import java.util.Scanner;
class TotalMarks {
    public static void main(String sss[]) {
        Scanner sc = new Scanner(System.in);
        int n, i;
        double total[] = new double[5];
```

```
        System.out.println("Enter the num of students : ");
        n = sc.nextInt();
```

```
        CIE.Internals in[] = new CIE.Internals[n];
        SEE.Externals ext[] = new SEE.Externals[n];
```

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

```
            in[i] = new CIE.Internals();
```

```
            ext[i] = new SEE.Externals();
```

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

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

```
            System.out.println("Internal marks: ");
```

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

```
            System.out.println("External marks: ");
```

```
            ext[i] ext[i].getsee();
```

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

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

```
                total[j] = (double) in[i].cie[j] + (ext[i].see[j]/2);
```

③

```
System.out.println("Total marks in subject  $i(i+1)$  +  
"by student  $i$ " +  $(i+1)$  + " : " + total[j]);
```

```
}
```

```
}
```

```
}
```

```
}
```

```
> cd CIE
```

```
> cd ..
```

```
> cd SEE
```

```
> cd ..
```

```
> javac Student.java
```

```
> javac Internals.java
```

```
> javac Externals.java
```

```
> javac TotalMarks.java
```

```
> java TotalMarks
```