

2/2/24.

Lab-5

2015

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Date

Q. Create package CIE which has two classes - Student and Interval. The class Student has members like USN, name, Sem. The class Interval has an array that stores marks. Create another package ISE having external as class it stores array of marks. Import the packages & declare the final marks of n students in all 5 courses.

```
package CIE;
import java.util.*;

public class Student
{
    public int sem;
    public String usn;
    public String name;
```

```
    public void accept() {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter USN, Name, Sem (n)");
        usn = in.nextLine();
        name = in.nextLine();
        sem = in.nextInt();
    }
```

```
};

package ISE;
public class Interval {
    public int arr[] = new int[5];
}
```

package SEE;

import CEE.Student;

public class External extends Student {
 public int sm[] = new int[5];
}

import java.util.*;

import SEE.*;

import CEE.*;

public class final marks;
}

public static void main (String args[])
{

int fm[] = new int[5];

Scanner sc = new Scanner (System.in);

System.out.println ("Enter usn");

int n = sc.nextInt();

SEE.External st[] = new SEE.Externals[n];

CEE.Internals s[] = new CEE.Internals[n];

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

st[i] = new SEE.Externals(i);

s[i] = new CEE.Internals ();

System.out.println ("Enter details : " + (i+1));

st[i].accept ();

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

{

System.out.println ("Enter in & sm
of sub " + (j+1));

s[i].in[j] = sc.nextInt ();

st[i].sm[j] = sc.nextInt ();

fm[j] = s[i].in[j] + st[i].sm[j];

}

System.out.println ("final marks of " + st[i].name);
 for (int k=0; k<5; k++)

System.out.println ("course " + (k+1) + " = "
 + sm[k]);

}

Algorithm:-

1. Start
2. Create package CBF & create class student & Internals
3. Create package SEC & create class extending which extends CBF.Stu
4. Create method accept() in class student to read id, name & sem
5. Create loop to accept marks in Internals & Externals
6. Create loop to calculate final marks & print it
7. Stop

O/p: Enter no. of students
1

Enter details id, name, sem

037

ad

1

Enter id and sem of sub1

15

60

Enter id and sem of sub2

16

60

Enter id and sem of sub3

17

60

Enter id and sem of sub4

17

60

Enter id & sem of sub 5

19

60

final marks are

course 1 = 75

course 2 = 76

course 3 = 77

course 4 = 78

course 5 = 79

```
C:\Users\abdes\Desktop>javac finalMarks.java
```

```
C:\Users\abdes\Desktop>java finalMarks
```

```
Anagh.B.Deshpande(1BM22CS037)
```

```
Enter no of students
```

```
1
```

```
Enter details usn,name,sem1
```

```
037
```

```
ad
```

```
1
```

```
Enter ima nd sm of sub1
```

```
15
```

```
60
```

```
Enter ima nd sm of sub2
```

```
16
```

```
60
```

```
Enter ima nd sm of sub3
```

```
17
```

```
60
```

```
Enter ima nd sm of sub4
```

```
18
```

```
60
```

```
Enter ima nd sm of sub5
```

```
19
```

```
60
```

```
Final marks ad
```

```
Course 1=75
```

```
Course 2=76
```

```
Course 3=77
```

```
Course 4=78
```

```
Course 5=79
```