

### **Program 6:**

Create a package CIE which has two classes- Student and Internals. The class Personal has members like usn, name, sem. The class Internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Student. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.

**Program solution :**

### **Package CIE:**

#### **Internals:**

```
package CIE;
import java.util.Scanner;
public class Internals extends CIE.Student
{
    public int ciem[]=new int[5];
    Scanner xx =new Scanner (System.in);
    public void accept()
    {
        for(int i=0;i<5;i++)
```

```
        {
            System.out.println("Enter the cie marks of subject" + (i + 1) + " out
of 50");
            {
                ciem[i] = xx.nextInt();
            }
        }
    }
}
```

### **Student:**

```
package CIE;

import java.util.Scanner;

public class Student
{
    String name, usn;
    int sem;
    Scanner xx = new Scanner(System.in);
    public void accept()
    {
```

```
        System.out.println("Enter name:");
        name=xx.nextLine();
        System.out.println("Enter usn:");
        usn=xx.next();
        System.out.println("Enter sem:");
        sem=xx.nextInt();
    }
    public void display()
    {
        System.out.println("Name :"+name);
        System.out.println("Usn :"+usn);
        System.out.println("Sem :"+sem);
    }
}
```

## Package SEE:

## Externals:

```
package SEE;

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

public class Externals extends CIE.Student
{
    public int seem[]=new int[5];
    Scanner xx =new Scanner (System.in);
    public void accept()
    {
        for(int i=0;i<5;i++)
        {
            System.out.println("Enter the see marks of subject"+(i+1)+" out
of 100");
            {
                seem[i]=xx.nextInt();
            }
        }
    }
}
```

```
}
```

```
}
```

### **Main Program:**

#### **TotalMarks:**

```
package SEE;
```

```
import CIE.*;
```

```
import java.util.Scanner;
```

```
public class Externals extends CIE.Student
```

```
{
```

```
    public int seem[]=new int[5];
```

```
    Scanner xx =new Scanner (System.in);
```

```
    public void accept()
```

```
    {
```

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

```
        {
```

```
            System.out.println("Enter the see marks of subject"+(i+1)+" out  
of 100");
```

```
        {  
            seem[i]=xx.nextInt();  
        }  
    }  
}
```

## Outputs:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19041.388]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>javac CIE/Student.java

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>javac CIE/Internals.java

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>javac SEE/Externals.java

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>TotalMarks
'TotalMarks' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>javac TotalMarks.java

C:\Users\dell\OneDrive\Desktop\java\lab assignments\packages>java TotalMarks
Enter the number of students
4
ENTER STUDENT1 DETAILS
Enter name:
ishan
Enter usn:
1bm19cs555
Enter sem:
3
Enter the cie marks of subject1 out of 50
49
Enter the cie marks of subject2 out of 50
48
Enter the cie marks of subject3 out of 50
47
Enter the cie marks of subject4 out of 50
49
Enter the cie marks of subject5 out of 50
50
Enter the see marks of subject1 out of 100
78
Enter the see marks of subject2 out of 100
99
Enter the see marks of subject3 out of 100
80
Enter the see marks of subject4 out of 100
85
Enter the see marks of subject5 out of 100
100
```

ENTER STUDENT2 DETAILS

Enter name:

vishal

Enter usn:

1bm19cs666

Enter sem:

3

Enter the cie marks of subject1 out of 50

50

Enter the cie marks of subject2 out of 50

48

Enter the cie marks of subject3 out of 50

46

Enter the cie marks of subject4 out of 50

45

Enter the cie marks of subject5 out of 50

38

Enter the see marks of subject1 out of 100

99

Enter the see marks of subject2 out of 100

98

Enter the see marks of subject3 out of 100

85

Enter the see marks of subject4 out of 100

90

Enter the see marks of subject5 out of 100

87



ENTER STUDENT3 DETAILS

Enter name:

Kishan

Enter usn:

1bm19cs199

Enter sem:

3

Enter the cie marks of subject1 out of 50

50

Enter the cie marks of subject2 out of 50

48

Enter the cie marks of subject3 out of 50

47

Enter the cie marks of subject4 out of 50

39

Enter the cie marks of subject5 out of 50

38

Enter the see marks of subject1 out of 100

100

Enter the see marks of subject2 out of 100

99

Enter the see marks of subject3 out of 100

99

Enter the see marks of subject4 out of 100

90

Enter the see marks of subject5 out of 100

96

---

```
50
ENTER STUDENT4 DETAILS
Enter name:
abhishek
Enter usn:
1bm19cs777
Enter sem:
3
Enter the cie marks of subject1 out of 50
48
Enter the cie marks of subject2 out of 50
47
Enter the cie marks of subject3 out of 50
46
Enter the cie marks of subject4 out of 50
44
Enter the cie marks of subject5 out of 50
43
Enter the see marks of subject1 out of 100
90
Enter the see marks of subject2 out of 100
86
Enter the see marks of subject3 out of 100
85
Enter the see marks of subject4 out of 100
80
Enter the see marks of subject5 out of 100
66
```

---

DETAILS OF STUDENT 1

Name :ishan

Usn :1bm19cs555

Sem :3

Total marks in subject1 is 88

Total marks in subject2 is 97

Total marks in subject3 is 87

Total marks in subject4 is 91

Total marks in subject5 is 100

DETAILS OF STUDENT 2

Name :vishal

Usn :1bm19cs666

Sem :3

Total marks in subject1 is 99

Total marks in subject2 is 97

Total marks in subject3 is 88

Total marks in subject4 is 90

Total marks in subject5 is 81

DETAILS OF STUDENT 3

Name :Kishan

Usn :1bm19cs199

Sem :3

Total marks in subject1 is 100

Total marks in subject2 is 97

Total marks in subject3 is 96

Total marks in subject4 is 84

Total marks in subject5 is 86

DETAILS OF STUDENT 4

Name :abhishek

Usn :1bm19cs777

Sem :3

Total marks in subject1 is 93

Total marks in subject2 is 90

Total marks in subject3 is 88

Total marks in subject4 is 84

Total marks in subject5 is 76

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