

- 6) Develop a java program and create a CIE package consists of Student and Internal class and SEE package consists of External and main class and display the Students mark in Internal and external.

// Student.java

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

public class Student
{
    protected String USN = new String();
    protected String name = new String();
    protected int Sem;

    public void Static Input Student Details()
    {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter USN:");
        USN = scanner.nextLine();
        System.out.println("Enter Name:");
        name = scanner.nextLine();
        System.out.println("Enter Semester:");
        Sem = scanner.nextInt();
    }

    public void display Student Details()
    {
        System.out.println("USN:" + USN);
        System.out.println("Name:" + name);
        System.out.println("Sem:" + Sem);
    }
}
```

```
// Internal.java
package CIE;
import java.util.Scanner;
public class Internal extends Student
{
    protected int marks[] = new int[5];
    public void input CIEmarks()
    {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the internal marks for " + name);
        for (int i = 0; i < 5; i++)
        {
            System.out.println("Subject " + (i + 1) + " marks: ");
            marks[i] = scanner.nextInt();
        }
    }
}
```

```
// External.java
package SEE;
import CIE.Internal;
import java.util.Scanner;
public class External extends Internal
{
    protected int marks[];
    protected final int marks[];
    public External()
    {
        marks = new int[5];
        final marks = new int[5];
    }
}
```



```
public void input SEE marks () {
```

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

```
System.out.println("Enter SEE marks for " + name);
```

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

```
System.out.println("Subject " + (i + 1) + " marks:");
```

```
marks[i] = scanner.nextInt();
```

```
public void calculate FinalMarks () {
```

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

```
final marks[i] = marks[i] / 2 + Supr.marks[i];
```

```
public void display final Marks () {
```

```
display StudentDetails();
```

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

```
System.out.println("Subject " + (i + 1) + " : " +  
finalmarks[i]);
```

```
// Main.java
```

```
import SEE, External;
```

```
public class Main {
```

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

```
int num_of_Students = 2;
```

```
External final marks[] = new External  
(num_of_Students);
```

```
for (int i = 0; i < num_of_Students; i++) {
```

```
finalmarks[i] = new external();
```

```
final mark[C][J].input StudentDetails();  
System.out.println("Enter CIE mark:");  
final mark[C][J].input CIE Mark();  
System.out.println("Enter SEE mark:");  
final mark[C][J].input SEE mark();
```

```
System.out.println("Display data:");  
for(int i=0; i<num_of_students; i++){  
    final mark[i][J].CalculateFinalMark();  
    final mark[i][J].displayFinalMark();  
}
```

Output

Enter USN:

IBM22CS255

Enter name:

Shashank Patel C.J.

Enter Sem

3

Enter CIE mark:

Enter Internal mark:

Subject 1: 45

Subject 2: 46

Subject 3: 42

Subject 4: 43

Subject 5: 44

Enter SEE mark:

Enter SEE mark for Shashank Patel C.J.

Subject 1: 85

Subject 2: 89

Subject 3: 87

Subject 4: 88

Subject 5: 87

enrol USN: IBM22CS485

enrol name: Nidhi

enrol Semester: 3

enrol CIE Marks

enrol Individual marks for Nidhi:

Subject 1: 45

Subject 2: 47

Subject 3: 46

Subject 4: 43

Subject 5: 44

enrol SEE marks

enrol SEE marks for Nidhi

~~Subject 1: 90~~

Subject 2: 78

Subject 3: 79

Subject 4: 89

Subject 5: 80

Display data:

USN: IBM22CS255

Name: Shashank Patel C.J.

Sem: 3

Subject 1: 87

Subject 2: 90

Subject 3: 85

Subject 4: 87

Subject 5: 87

USN: IBM 22CS 485

Name: Nishu

Sem: 3

Subject 1: 90

Subject 2: 86

Subject 3: 76

Subject 4: 86

Subject 5: 75

Shashank Patel, C.T.

IBM 22CS 255

~~W~~ 24
24

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

22CS 485

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

22CS 485

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

12:00 hrs

