

PROGRAM - 6

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Create package CIE with 2 classes (Student & Internals)
 Class personnel has usn, name, sem. Class Internals
 has array stores internal marks. Create another
 package SEE with class External derived from
 class student. This class has array that stores
 SEE marks. Import 2 packages in file that
 derives, final marks.

```
Package CIE;
import java.util.*;
public class Student {
    public int sem;
    public String usn;
    public String name;
}
```

```
public void accept() {
    Scanner scan = new Scanner(System.in);
    System.out.println("Enter U, S, N");
    usn = scan.nextLine();
    name = scan.nextLine();
    sem = scan.nextInt();
}
```

```
package CIE;
public class Internals {
}
```

```
public int im[] = new int[5];
}
```

```
Package SEE;
import CIE.Student;
```

```

public class External extends Student {
    public int sm[] = new int[5];
    import java.util.*;
    import SEE.*;
    import CIE.*;
    public class FinalMarks {
        public static void main (String args[]) {
            int fm[] = new int [5];
            Scanner sc = new Scanner (System.in);
            System.out.println ("Enter n : ");
            int n = sc.nextInt();
            SEE.External st[] = new SEE.External[n];
            CIE.Internals s[] = new CIE.Internals[n];
            for (int i=0; i<n; i++) {
                st[i] = new SEE.External();
                s[i] = new CIE.Internals();
                System.out.println ("Enter details " + (i+1));
                st[i].accept();
                for (int j=0; j<5; j++)
                    System.out.println ("Enter internal marks ");
                    System.out.println ("and sum of sub " + (i+1));
                    st[i].im[j] = sc.nextInt();
                    st[i].sm[j] = sc.nextInt();
                    fm[i] = s[i].im[i] + st[i].sm[i];
        }
    }
}

```

```

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

```

```
System.out.println("Course " + (k+1) + "=" + fm[k]);
```

3. Output class softguru (obj)

5. Input class student (obj)

3. (Guru) softguru (obj)

3. (Guru) student (obj)

⇒ Algorithm

Step 1: Start

Step 2: Create a package called LIE with class Student

Step 3: In class Student initialise user, name & sem

input for user, name and sem

Step 4: Create a class Internal and stores marks

package LIE. from package LIE create class Internal

Step 5: Create another package called SEE or call

import class Student from LIE.

Step 6: In SEE with class External create an array
to store the marks of the student

Step 7: Create Main function and import both the
packages (LIE and) SEE.

Step 8: Create class final marks and initialise array
from.

Step 9: Take the value of n & run the user.

Step 10: Create an object st is Student
and internal.

Step 11: take the details of internal and external
marks from the users.

Step 12: Calculate final marks

Step 13: Stop.