

Q) 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.

CODE:

1) Create a package CIE which has two classes Student and Internals. The class Personal has an array that stores the internal marks scored in 5 courses of the current semester of student. Import 2 packages.

(CIE)

```

package CIE;
import java.util.*;

public class Student {
    Scanner sc = new Scanner(System.in);
    public String usn, name;
    public int sem;

    public void accept() {
        S.O.P("Enter USN, Name & Current Semester:");
        usn = sc.nextLine();
        name = sc.nextLine();
        sem = sc.nextInt();
    }

    public void display() {
        S.O.P("In Student details:");
        S.O.P("Name : " + name);
        S.O.P("USN : " + usn);
        S.O.P("Semester : " + sem);
    }
}
    
```

```
package c1c;
```

```
import java.util.*;
```

```
public class Scanner extends c1c {
```

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

```
public void run() {
```

```
    public void accept()
```

```
    {
```

```
        int i
```

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

```
        {
```

```
            System.out.print("Enter marks of
```

```
            subject " + (i + 1) + " : ");
```

```
            char ch = sc.next().charAt(0);
```

```
        }
```

```
    }
```

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```
package c1c;
```

```
import java.util.*;
```

```
import java.util.*;
```

```
public class Scanner extends c1c {
```

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

```
public void run() {
```

```
    public void accept()
```

```
    {
```

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

```
{  
    S.O.P() Enter OEE marks of subject  $i+1$  (i.e. n),  
    stem[i] = sc.nextInt();  
}
```

```
}
```

```
import java.*;
```

```
import oee.*;
```

```
import java.util.*;
```

```
class Main {
```

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

```
{
```

```
    int i, j, n;
```

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

```
    int total = new int[5];
```

```
    S.O.P() Enter Number of students : < >;
```

```
    n = sc.nextInt();
```

```
    OEE student sc[] = new OEE student[n];
```

```
    OEE. marks ci[] = new OEE. marks[n];
```

```
    OEE. marks sc[] = new OEE. marks
```

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

```
{
```

```
    System.out.print("Enter student  $i+1$  (i.e. n)  
    details : ");
```

stu[i] = new CTE.Student();

stu[i].accept();

ci stu = new CTE.unlunshi();

(ci stu).accept();

se stu = new CTE.enlunshi();

se stu).accept();

y

for (u = 0; u < n; u++)

{

 s. o. o. l. n. "Details of student " + (u + 1) + ";

 stu[u].display();

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

{

 total[j] = (stu[u].aem[j]) + (se stu).aem[j] * 10;

 s. o. l. n. "Total mark of student " + (u + 1) + " : " + total[j];

 }

 s. o. l. n.;

y

y

OUTPUT

```
1
Enter student 1 details
Enter USN, Name and Current semester:
1BM21CS062
SANJANA
3
Enter CIE marks of subject 1
50
Enter CIE marks of subject 2
50
Enter CIE marks of subject 3
50
Enter CIE marks of subject 4
50
Enter CIE marks of subject 5
50
Enter SEE marks of subject 1
50
Enter SEE marks of subject 2
50
Enter SEE marks of subject 3
50
Enter SEE marks of subject 4
50
Enter SEE marks of subject 5
50

Details of student 1

Student Details
Name: SANJANA
USN: 1BM21CS062
Semester: 3
Total marks in subject 1: 100
Total marks in subject 2: 100
Total marks in subject 3: 100
Total marks in subject 4: 100
Total marks in subject 5: 100
```