

29/1/24

1) Package CIE;

public class Student {

public String usn, name;

public int sem;

public Student (String usn, String name,  
int sem) {

this.usn = usn;

this.name = name;

this.sem = sem;

}

}

package CIE;

public class Internals extends Student {

public double[] internalMarks = new double[5];

public Internals (String usn, String name,  
int sem, double[] internalMarks)

{

}



```
package SEE;  
import CIE.Student;
```

```
public class External extends Student  
{
```

```
    public double[] seeMarks = new double[5];
```

```
    public External(String usn, String name,  
                    int sem, double[]  
                    seeMarks)
```

```
{
```

```
    super(usn, name, sem);
```

```
    this.seeMarks = seeMarks;
```

```
}
```

```
}
```

```
package result;
```

```
import CIE.Student;
```

```
CIE.Internals;
```

```
SEE.External;
```

```
public class result {
```

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

```
        double internal[] = {43, 45, 47, 44, 41};
```

```
        double external[] = {90, 87, 65, 98, 43};
```

```
        Student A1 = new Student("IBN22CS061",  
                                   "Ayman", 3);
```

```
        Internal i1 = new Internal("IBN22CS061", "Ayman",  
                                    3, internal);
```

```
        External e1 = new External("IBN22CS061", "Ayman",  
                                    3, external);
```



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```

    printf("USN: " + st.usn + " name: " + st.name +
           " sem: " + st.sem);

```

```

    printf("Internal Marks");
    for (int i = 0; i < 5; i++) {
        printf("Internal marks " + (i+1) +
               " : " + st.internalMarks[i]);
    }

```

```

    printf("External Marks");
    for (int i = 0; i < 5; i++) {
        printf("External marks " + (i+1) +
               " : " + st.externalMarks[i]);
    }

```

```

}
}

```

O/P

USN: IBN22CS001 name: Aayman sem 3

Internal Marks

Internal Marks 1: 43.0

2: 45.0

3: 47.0

4: 46.0

5: 41.0

External Marks

External Marks 1: 90.0

2: 87.0

3: 65.0

4: 98.0

5: 43.0

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