

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.

CODE:

```
package SEE;
import CIE.*;
import java.util.Scanner;
public class Externals extends 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));
    {
        seem[i]=xx.nextInt();
    }
}
}
}
}
}

```

////////////////////////////////////

```

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));
```

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

```
//////////
```

[10:04 pm, 20/09/2021] Harshita: 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);
}
}
```

```
//////////
```

```
import java.util.*;
import java.lang.String;
import java.awt.*;
import java.awt.event.*;
class generic<DT1,DT2,DT3>
{
DT1 obj;
DT2 obj1;
DT3 obj2;
```

```
generic(DT1 a,DT2 b,DT3 c)
```

```
{
```

```
obj=a;
```

```
obj1=b;
```

```
obj2=c;
```

```
}
```

```
DT1 get1()
```

```
{
```

```
return obj;
```

```
}
```

```
DT2 get2()
```

```
{
```

```
return obj1;
```

```
}
```

```
DT3 get3()
```

```
{
```

```
return obj2;
```

```
}
```

```
void showdatatype()
```

```
{
```

```
System.out.println("THE TYPES OF DATATYPE  
USED
```

```
IS="+obj.getClass().getName());
```

```
System.out.println("THE TYPES OF DATATYPE  
USED
```

```
IS="+obj1.getClass().getName());
```

```
System.out.println("THE TYPES OF DATATYPE  
USED
```

```
IS="+obj2.getClass().getName());
```

```
}
```

```
}
```

```
class genericmain
```

```
{
```

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

```
{
```

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

```
System.out.println("ENTER THE VALUES");
```

```
int x=s.nextInt();
```

```
String str=s.next();
```

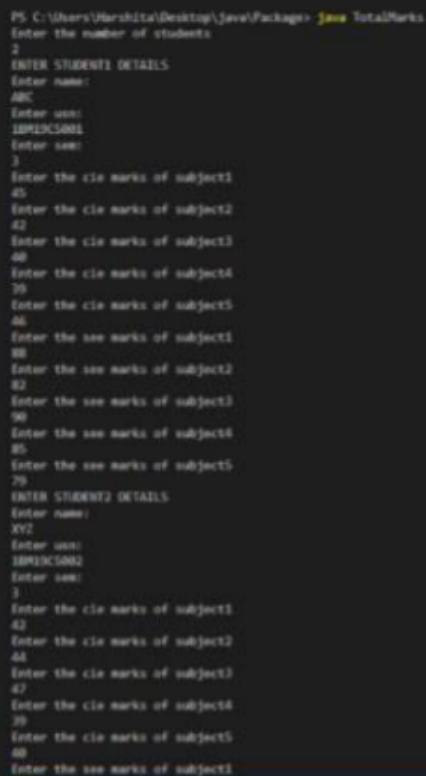
```
double xx=s.nextDouble();
```

```
generic<Integer,String,Double> a=new
```

```
generic<Integer,String,Double>(x,str,xx);
```

```
a.showdatatype();  
System.out.println("THE INTEGER ENTERED  
IS="+a.get1());  
System.out.println("THE STRING ENTERED  
IS="+a.get2());  
System.out.println("THE INTEGER ENTERED  
IS="+a.get3());  
}  
}
```

OUTPUT:



```
PS C:\Users\Harshita\Desktop\Java\Package> java TotalMarks  
Enter the number of students  
2  
ENTER STUDENT1 DETAILS  
Enter name:  
ABC  
Enter ssn:  
IDPINC1001  
Enter ssn:  
3  
Enter the cla marks of subject1  
45  
Enter the cla marks of subject2  
42  
Enter the cla marks of subject3  
40  
Enter the cla marks of subject4  
39  
Enter the cla marks of subject5  
46  
Enter the ssn marks of subject1  
80  
Enter the ssn marks of subject2  
82  
Enter the ssn marks of subject3  
90  
Enter the ssn marks of subject4  
85  
Enter the ssn marks of subject5  
79  
ENTER STUDENT2 DETAILS  
Enter name:  
XYZ  
Enter ssn:  
IDPINC1002  
Enter ssn:  
3  
Enter the cla marks of subject1  
42  
Enter the cla marks of subject2  
44  
Enter the cla marks of subject3  
47  
Enter the cla marks of subject4  
39  
Enter the cla marks of subject5  
40  
Enter the ssn marks of subject1
```

```
Enter the see marks of subject5
79
ENTER STUDENT2 DETAILS
Enter name:
XYZ
Enter usn:
10P19CS002
Enter sem:
3
Enter the c/a marks of subject1
42
Enter the c/a marks of subject2
44
Enter the c/a marks of subject3
47
Enter the c/a marks of subject4
39
Enter the c/a marks of subject5
40
Enter the see marks of subject1
80
Enter the see marks of subject2
87
Enter the see marks of subject3
84
Enter the see marks of subject4
90
Enter the see marks of subject5
92
DETAILS OF STUDENT 1
Name :ABC
Usn :10P19CS001
Sem :3
Total marks in subject1 is 89
Total marks in subject2 is 83
Total marks in subject3 is 85
Total marks in subject4 is 81
Total marks in subject5 is 85
DETAILS OF STUDENT 2
Name :XYZ
Usn :10P19CS002
Sem :3
Total marks in subject1 is 82
Total marks in subject2 is 87
Total marks in subject3 is 89
Total marks in subject4 is 84
Total marks in subject5 is 86
```