

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\shashita\Desktop\Java\Package> java TotalMarks
2
ENTER STUDENT DETAILS
Enter name:
ABC
Enter age:
1000000000
Enter sex:
3
Enter the c/a marks of subject1
45
Enter the c/a marks of subject2
42
Enter the c/a marks of subject3
40
Enter the c/a marks of subject4
38
Enter the c/a marks of subject5
40
Enter the s/a marks of subject1
80
Enter the s/a marks of subject2
82
Enter the s/a marks of subject3
80
Enter the s/a marks of subject4
85
Enter the s/a marks of subject5
78
ENTER STUDENT2 DETAILS
Enter name:
XYZ
Enter age:
1000000000
Enter sex:
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 s/a marks of subject1
80
Enter the s/a marks of subject2
82
Enter the s/a marks of subject3
80
Enter the s/a marks of subject4
85
Enter the s/a marks of subject5
78

```

```

Enter the s/a marks of subject1
79
ENTER STUDENT3 DETAILS
Enter name:
XYZ
Enter age:
1000000000
Enter sex:
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 s/a marks of subject1
80
Enter the s/a marks of subject2
82
Enter the s/a marks of subject3
80
Enter the s/a marks of subject4
85
Enter the s/a marks of subject5
78
Enter the s/a marks of subject1
79
Enter the s/a marks of subject2
82
Enter the s/a marks of subject3
80
Enter the s/a marks of subject4
85
Enter the s/a marks of subject5
78
DETAILS OF STUDENT 1
Name: ABC
Age: 1000000000
Sex: 3
Total marks in subject1 is 80
Total marks in subject2 is 82
Total marks in subject3 is 80
Total marks in subject4 is 85
Total marks in subject5 is 78
DETAILS OF STUDENT 2
Name: XYZ
Age: 1000000000
Sex: 3
Total marks in subject1 is 82
Total marks in subject2 is 84
Total marks in subject3 is 87
Total marks in subject4 is 39
Total marks in subject5 is 40

```

LAB PROGRAM 7