Lab-7 Assignments

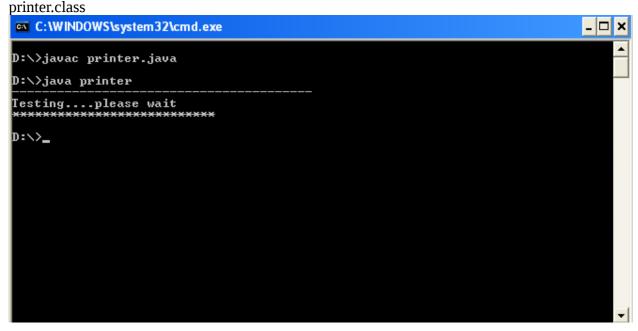
Introducing Interfaces and Packages

```
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interface printable{
           public void printLine();
           public void printStar();
           interface testable{
           public void testCoke();
           class printer implements printable,testable{
             public void printLine() {
             System.out.println(
             System.out.println("
}
             public void testCoke(){
             System.out.println("Testing....please wait");
}
           public static void main(String[] args){
              printer print=new printer();
print.printLine();
               print.testCoke();
               print.printStar();
          }
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```

Save as printer.java

Note: three .class files get created

printable.class testable.class



Demo2

```
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class nestedinterface {
       nestedinterface(int a) {
         this.a=a;
       }
       interface print {
       void print(String str);
}}
      class nesteddemo extends nestedinterface implements nestedinterface.print{
       nesteddemo(int a,int b)
        {
          super(a);
        this.b=b;
       public void print(String str) {
System.out.println(str+a+" & "+b+".");
}
        String getdata(){
        return "The value of a & b : ";
       public static void main(String args[]) {
  nesteddemo nd=new nesteddemo(20,53);
         nd.print(nd.getdata()); }}
printer.java nesteddemo.java
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Save as nesteddemo.java
C:\WINDOWS\system32\cmd.exe
D:∖>javac nesteddemo.java
D:\>java nesteddemo
The value of a & b : 20 & 53.
D:\>_
```

Assignments To Solve

Create an interface relational interface relational {
 void greaterThan();
 void lessThan();
 void greaterThaneq();

Create a class relationdemo .In main create an object of implRel (implementing class) and invoke all the methods ...

}

Write a class implMath which implements MyMath interface.

Write another class MathDemo ..In main create a reference of MyMath pointing to implMath class and invoke the methods..Accept the values from the user..

3. Create a package com.user.

Now create a Greeter class in this package having the following features:

Attributes:

name string //indicates name of the person to be greeted

Member functions:

Greeter(aName) //constructor to initialize the name of the //person to be greeted

by this greeter.

sayHello() //returns a hello message with the name of the //person

initialized earlier.

sayGoodBye()//bids goodbye to the person named earlier.

Create another class in the same package called Advisor that has the following features:

Attributes:

message string[5] //contains five advice messages

Member functions:

Advisor() //default constructor to initialize an array of //strings with

atleast five advice messages

getAdvice() //randomly selects an advice from the available //list of

messages and returns it to the caller of //this method

Outside the package, from your working directory, create a class GreeterTest that constructs Greeter objects for all command-line arguments and prints out the results of calling sayHello().

The program should then display an advice and finally bid goodbye to each of the persons/entities in reverse order of the names entered at the command line.

For e.g.,

java GreeterTest Mars Venus then the program should print Hello, Mars! Hello, Venus! Advice: Never say No Goodbye Venus!

Goodbye Mars!