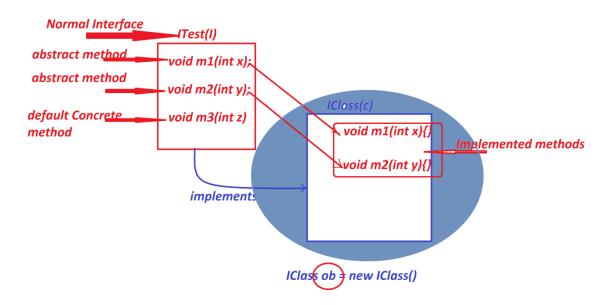
Dt: 3/1/2025(Day-5)

Design Pattern from CoreJava:

Diagram:



```
ProjectName : Design_Model_1_CoreJava

test : ITest.java

package test;
public interface ITest
{
    public abstract void m1(int x);
    public abstract void m2(int y);
    public default void m3(int z)
    {
        System.out.println("----default concrete m3(z)----");
        System.out.println("The value z:"+z);
    }
}
```

test: IClass.java

```
package test;
public class IClass implements ITest
  public void m1(int x)
   {
        System.out.println("----Implemented method m1(x)----");
        System.out.println("The value x:"+x);
   }
  public void m2(int y)
        System.out.println("----");
        System.out.println("The value y:"+y);
}
test: DemoModel1.java(MainClass)
package test;
import java.util.*;
public class DemoModel1
     public static void main(String[] args)
       Scanner s = new Scanner(System.in);//Scanner Object connected to
Console Input
        try(s;){
           System.out.println("Enter the value for x:");
            int x = s.nextInt();
           System.out.println("Enter the value for y:");
            int y = s.nextInt();
           System.out.println("Enter the value for z:");
           int z = s.nextInt();
           IClass ob = new IClass(); //Implementation Object
           ob.m1(x);
           ob.m2(y);
           ob.m3(z);
        }catch(Exception e) {
           e.printStackTrace();
     }
}
o/p:
Enter the value for x:
```

Enter the value for y: 21

Enter the value for z:

23

-----Implemented method m1(x)-----

The value x:12

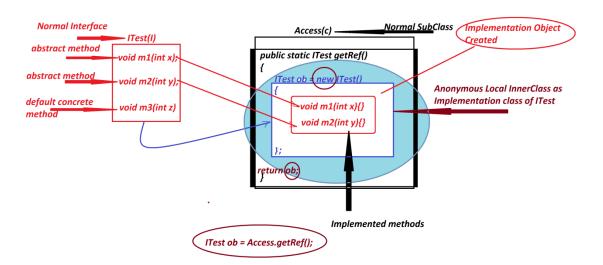
----Implemented method m2(y)----

The value y:21

----default concrete m3(z)----

The value z:23

Diagram:



ProjectName: Design_Model_2_CoreJava

test: ITest.java

package test;

```
public interface ITest
{
   public abstract void m1(int x);
   public abstract void m2(int y);
   public default void m3(int z)
         System.out.println("----default concrete m3(z)----");
         System.out.println("The value z:"+z);
   }
}
test: Access.java
package test;
public class Access
   public static ITest getRef()
         ITest ob = new ITest()
               @Override
               public void m1(int x)
                     System.out.println("----Implemented method
m1(x)----");
                     System.out.println("The value x:"+x);
               @Override
               public void m2(int y)
                     System.out.println("----Implemented method
m2(y)----");
                     System.out.println("The value y:"+y);
               }
         };
         return ob;
   }//OuterClass static method
}//OuterClass
test: DemoModel2.java(MainClass)
package test;
import java.util.*;
public class DemoModel2 {
      public static void main(String[] args) {
       Scanner s = new Scanner(System.in);
       try(s;){
         System.out.println("Enter the value for x:");
```

```
int x = s.nextInt();
          System.out.println("Enter the value for y:");
          int y = s.nextInt();
          System.out.println("Enter the value for z:");
          int z = s.nextInt();
          ITest ob = Access.getRef();//Implementation Object
          ob.m1(x);
          ob.m2(y);
          ob.m3(z);
       }catch(Exception e) {
          e.printStackTrace();
}
o/p:
Enter the value for x:
21
Enter the value for y:
22
Enter the value for z:
23
----Implemented method m1(x)
The value x:21
----Implemented method m2(y)---
The value y:22
----default concrete m3(z)----
The value z:23
```