

Abstraction Tasks

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Q1:

Project : University Information

Package : org.univ

Class : University

Methods : ug(),pg()

Class : College

Methods : ug(),pg()

Description:

ug(),pg() is just a templete in University class and You have to override the method ug(),pg() in College class. (Partial abstraction)

Q2:

Project : BikeInformation

Package : org.bike

Interface : Bike

Methods : cost(),speed()

Class : Ktm

Methods : cost(),speed()

Description:

cost(),speed() is just a templete in Bike Interface and You have to override the method cost(),speed() in Ktm class. (full abstraction)

Q3:

Project : Computer

Interface :HardWare

Methods : hardwareResources()

Interface : Software

Methods : softwareResources()

Class : Desktop

Methods : desktopMode1()

Description:

create 2 Interface and archieve multiple inheritance.

Package Explorer

- > CompanyDetail1s
- > CompanyDetails
- > CompanyDetPoly
 - > JRE System Library [JavaSE-1.8]
- > src
 - > org.company
 - > CompanyInfo.java
- > Computer
- > EducationInformation
 - > JRE System Library [JavaSE-1.8]
- > src
 - > org.edu
 - > Arts.java
 - > Education.java
 - > Engineering.java
 - > Medicine.java
- > EduInfo
 - > JRE System Library [JavaSE-1.8]
- > src
 - > org.edu
 - > Arts.java
 - > Education.java
- > EmployeeDetail1s
- > EmployeeDetails1
- > EmployeeInformation
- > Java
- > LanguageDetail1s
- > LanguageDetails
- > MyPhone
- > Ruben
- > Scanner-Project
- > University_Information
 - > JRE System Library [JavaSE-1.8]
- > src
 - > org.univ
 - > College.java
 - > University.java

University.java

```
1 package org.univ;
2 public abstract class University {
3     public abstract void ug();
4     public abstract void pg();
5     //Adding another method for partial abstraction.
6     public void mba() {
7         System.out.println("MBA");
8     }
9 }
```

College.java

```
1 package org.univ;
2
3 public class College extends University {
4     @Override
5     public void ug() {
6         System.out.println("Ug Overiden");
7     }
8     @Override
9     public void pg() {
10         System.out.println("Pg Overiden");
11     }
12     public static void main(String[] args) {
13         College c = new College();
14         c.ug(); c.pg();
15         System.out.println("Empty template thus overiden.");
16         c.mba();
17     }
18 }
19
```

Console

<terminated> College (1) [Java Application] C:\Users\Lenovo\Downloads\Compressed\eclipse\plugins

Ug Overiden
Pg Overiden
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MBA

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