

## Day3\_Polymorphism,Abstraction

DAY3:

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- 1.Polymorphism
- 2.Abstraction

QUESTIONS (Theory)

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- 1.What is mean by polymorphism?
- 2.Difference between method overloading and method overriding?
- 3.What is mean by Abstraction?
- 4.Difference between Abstract class and interface?
- 5.What is mean by abstract method?
- 6.Can we create object for abstract class?
- 7.In interface,can we make method as static?
- 8.In interface,can we make method as final?
- 9.How will achieve multiple inheritance in java,write a code for that?

QUESTIONS (Programs)

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QUESTION 1:

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Find the answer for below questions and tell whether it is possible or not?

- I implements I
- I implements C
- I implements A
- I extends I
- I extends C
- I extends A

- C implements I
- C implements C
- C implements A
- C extends I
- C extends C
- C extends A

- A implements I
- A implements C
- A implements A
- A extends I
- A extends C
- A extends A

A-abstract class

C-class

I- interface

QUESTION 2:

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Project    :EmployeeDetails
Package    :org.emp
Class      :Employee
Methods    :empId()
```

Description

You have to overload the method empId() based on different datatype in arguments.

QUESTION 3:

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Project :CompanyDetails  
Package :org.company  
Class :CompanyInfo  
Methods :companyName ()

Description

You have to overload the method companyName() based on different Number of arguments.

QUESTION 4:

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Project :MyPhone  
Package :org.phone  
Class :Phone  
Methods :phoneInfo ()

Description

You have to overload the method phoneInfo() based on different datatype order in arguments.

QUESTION 5:

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Project :GreensAddress  
Package :org.add  
Class :GreensTech  
Methods :greensOmr ()

Description

You have to overload the method greensOmr() based on order,type,number.

QUESTION 6:

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Project :BankDetails  
Package :org.bank  
Class :BankInfo  
Methods :saving(),fixed(),deposit()  
  
Class :AxisBank  
Methods :deposit()

Description:

You have to override the method deposit in AxisBank.

QUESTION 7:

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Project :EducationInformation  
Package :org.edu  
Class :Education  
Methods :ug(),pg()  
  
Class :Arts  
Methods :bSc(),bEd(),bA(),bBA(),ug(),pg()

Description:

You have to override the method ug(),pg() in Arts.

QUESTION 8:

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Project :UniversityInformation

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.

QUESTION 9:

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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.

QUESTION 10:

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Project :Computer  
Interface :HardWare  
Methods :hardwareResources()

Interface :Software  
Methods :softwareResources()

Class :Desktop  
Methods :desktopModel()

Description:

create 2 Interface and archieve multiple inheritance.