Day3_Polymorphism,Abstraction

DAY3:

1.Polymorphism
2.Abstraction

QUESTIONS(Theory)

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)

QUESTION 1:

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:

        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:

    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:
------------
     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.
```