

POLYMORPHISM

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TECHNICAL QUESTIONS:

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- 1.What is polymorphism in Java?
- 2.What are the types of polymorphism?
- 3.Difference between compile-time and runtime polymorphism?
- 4.What is method overloading?
- 5.What is method overriding?
- 6.Difference between overloading vs overriding?
- 7.Can we overload the main() method?
- 8.Can we override static methods? Why?
- 9.What is dynamic method dispatch?
- 10.What is early binding vs late binding?
- 11.Can constructors be overloaded?
- 12.Can private methods be overridden?
- 13.Rules for method overriding?
- 14.What is covariant return type?
- 15.Can we change access modifier while overriding?

TASKS:

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- 1.Create a class Employee with method salary().
Override it in Manager and Developer.
- 2.Create a class Vehicle with method run().
Override it in Car and Bike.
- 3.Create method overloading for multiply():
2 parameters
3 parameters
- 4.Create a class Payment with method pay().
Override in UPI, Card, NetBanking.
- 5.Create a class Calculator:
add(int, int)
add(int, int, int)
add(double, double)
- 6.You have to overload the method phoneInfo() based on different datatype
order in arguments.

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

- 7.You have to overload the method EdutechOmr() based on
order,type,number.

```
Project      :EdutechAddress
Package      :org.add
Class        :EduTech
Methods      :EdutechOmr()
```

- 8.You have to override the method deposit in AxisBank.

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

Class :AxisBank
Methods :deposit()

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

Project :EducationInformation
Package :org.edu
Class :Education
Methods :ug(),pg()

Class :Arts
Methods :bSc(),bEd(),bA(),bBA(),ug(),pg()