

## ABSTRACTION

### Programs:

1. Create an abstract class and implement the abstract methods in their derived classes

a) Abstract Class name: mobile

Abstract and non-abstract Methods: mobilebrand();  
mobilecamera(), mobileram()

Derived Class name: vivo

Methods: mobilebrand(), vivoprocessor()

Derived Class name: iphone

Methods: mobilebrand(), ram()

b) Abstract Class name: university

Abstract and non-abstract Methods: students();  
studentdetails()

Derived Class name: college1

Methods: students(), studentid()

Derived Class name: college2

Methods: students(), studentmarks()

c) Abstract Class name: bank

Abstract and non-abstract Methods: customerdetails();

accounttype()

Derived Class name: bank1

Methods: customerdetails(), accountno()

Derived Class name: bank2

Methods: customerdetails(), netbanking()

d) Abstract Class name: college

Abstract and non-abstract Methods: departmentnames();

noofstudent(); , collegename()

Derived Class name: department1

Methods: departmentnames(), noofstudent(), subjects()

Derived Class name: department2

Methods: departmentnames(), noofstudent(), staffs()

## **Theory:**

1. Why abstraction is used in Java?
2. What is abstraction vs encapsulation?
3. Can we create object for abstract class?
4. Difference between abstract class and interface?