



**MANAV RACHNA UNIVERSITY, FARIDABAD**  
**Department of Computer Science and Technology**

Course: B.Tech. CSE

Semester: III

Subject: Object Oriented Programming using Java (CSH201B-T)

***Tutorial: 7 Inheritance***

**Objective:** Student will be able to understand and apply Concepts of Inheritance

***Course Outcomes:***

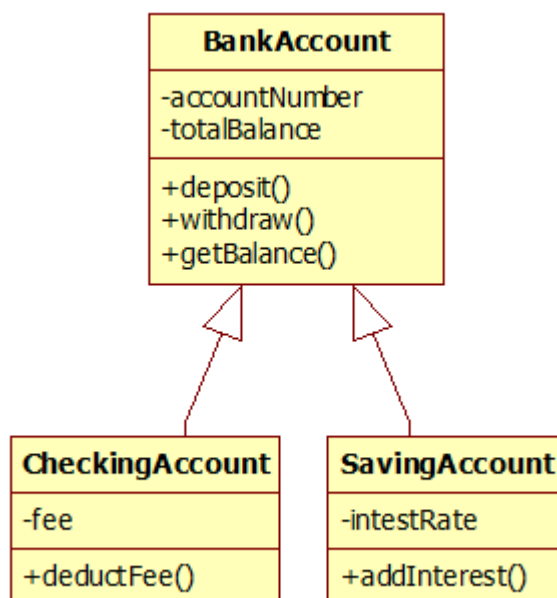
**CSH201B.1:** To impart **understanding** of basic programming concepts in Java language.

**CSH201B.2:** To enable the student to articulate given program scenario and **apply** different programming constructs.

**CSH201B.3:** To **analyze** the semantics of the given problem statement and illustrate the programming techniques to solve them.

**Blooms Taxonomy Level:** BT1, BT2, BT3

1. Discuss syntax of defining inheritance?
2. Which class is superclass of every class in Java?
3. Which keyword can be used to prevent inheritance of a class?
4. Explain the different types of inheritance with syntax.
5. Write a program in Java to implement the following relationship:





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6. What is the output of this program?

***Blooms Taxonomy Level: BT3***

```
abstract class A
{
    int i;
    abstract void display();
}
class B extends A
{
    int j;
    void display()
    {
        System.out.println(j);
    }
}
class Abstract_demo
{
    public static void main(String args[])
    {
        B obj = new B();
        obj.j=2;
        obj.display();
    }
}
```

7. What is the output of this program?

***Blooms Taxonomy Level: BT3***

```
class Output
{
    public static void main(String args[])
    {
        Object obj = new Object();
        System.out.print(obj.getClass());
    }
}
```



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