



Experiment 1.3

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Branch: CSE

Semester: 3rd

Subject Name: Java Program Lab

UID:20BCS1812

Section/Group:6B

Date of Performance: 09/09/2021

Subject Code:20CSP-219

1) Aim/Overview of the practical:

Program to learn different types of inheritance in java.

2) Task to be done/ Which logistics used:

To write a program to learn different types of inheritance in java.

3) Algorithm/Flowchart (For programming based labs):







4) Steps for experiment/practical/Code:

Single Inheritance:

```
class Human {
    void eat() {
        System.out.println("By eating food human get energy");
    }
}
class Rohan extends Human {
    void study() {
        System.out.println("Rohan is studying for his exam!");
    }
}
class TestInheritance {
    public static void main(String args[]) {
        Rohan d = new Rohan();
        d.study();
        d.eat();
    }
}
```

Multilevel Inheritance:

```
class Human {
    void eat() {
        System.out.println("By eating food human get energy");
    }
}
class Rohan extends Human {
    void study() {
        System.out.println("Rohan is studying for his exam!");
    }
}
class Class extends Rohan{
    void std() {
        System.out.println("Rohan studies in standard 12.");
    }
}
class TestInheritance {
    public static void main(String args[1) {
        Class d = new Class();
        d.study();
        d.eat();
        d.std();
    }
}
```







Hierarchical Inheritance:

```
class JavaExample
{
    public static void main(String args[])
    {
        B obj1 = new B();
        C obj2 = new C();
        D obj3 = new D();
        //All classes can access the method of class A
        obj1.methodA();
        obj2.methodA();
        obj3.methodA();
}
```







5.	Observations	/Discussions	s/ Complexit	tv Analysis:
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6. Result/Output/Writing Summary:

Single Inheritance:

Rohan is studying for his exam! By eating food human get energy

Multilevel Inheritance:

Rohan is studying for his exam! By eating food human get energy Rohan studies in standard 12.







Hierarchical Inheritance:

```
method of Class A
method of Class A
method of Class A
```

Learning outcomes (What I have learnt):

- 1. Learnt about java programming language.
- 2. Learnt about the different types Inheritance.
- **3.**
- 4.
- 5.





Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

