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**Subject:- Advanced Java Programming Lab** 

## **Experiment no.1**

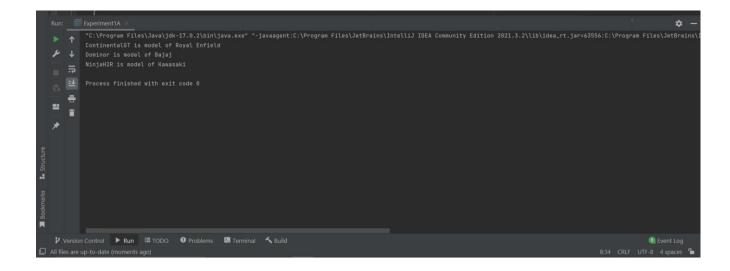
**Aim:-** Implementing Program that are easily extensible demonstrating Polymorphic behavior.

#### Program no.1:- A program using Override method in Java:-

```
package com.AJPExperiments;
class bike{
  public void model()
    System.out.println("We are bikes");
}
class continentalGT extends bike{
  public void model()
    System.out.println("ContinentalGT is model of Royal Enfield");
class Dominor extends bike{
  public void model()
    System.out.println("Dominor is model of Bajaj");
class NinjaH2R extends bike{
  public void model()
    System.out.println("NinjaH2R is model of Kawasaki");
}
public class Experiment1A {
  public static void main(String[] args) {
    bike m1 = new continentalGT();
    m1.model();
```

```
bike m2 = new Dominor();
    m2.model();
    bike m3 = new NinjaH2R();
    m3.model();
}
```

### **Output:-**



# Program no.2: Write a program to print rate of interest of some banks using overriding method.

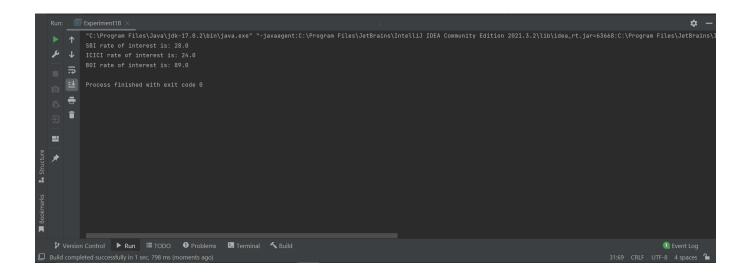
```
package com. AJPExperiments;
```

```
class bank1{
    float interest() {
        return 0;
    }
}
class SBI extends bank1 {
    float interest() {
        return (28.0f);
    }
}
class ICICI extends bank1 {
    float interest() {
        return (24.0f);
    }
}
class BOI extends bank1 {
    float interest() {
```

```
return (89.0f);
}

public class Experiment1B {
  public static void main(String[] args) {
    bank1 b;
    bank1 b1 = new SBI();
    System.out.println("SBI rate of interest is: "+b1.interest());
    bank1 b2 = new ICICI();
    System.out.println("ICICI rate of interest is: "+b2.interest());
    bank1 b3 = new BOI();
    System.out.println("BOI rate of interest is: "+b3.interest());
}
```

### **Output:-**



## Program no.3:- Write a program using method overloading.

package com.AJPExperiments;

```
class overload{
  void demo (int a)
  {
    System.out.println("a:"+a);
  }
  void demo (int a, int b)
  {
    System.out.println("a & b:"+a);
    System.out.println(b);
}
```

```
double demo (double a){
    System.out.println("double a: "+a);
    return a*a;
}

public class Experiment1C {
    public static void main(String[] args) {
        overload s1 = new overload();
        double result;
        s1.demo(8);
        s1.demo(28, 24);
        result = s1.demo(5.5);
        System.out.println("The result is:"+ result);
    }
}
```

# **Output:-**

