

```
package com.tnsif.oopsconcept;
```

```
class MathOp{
```

```
    //Method overloading or Compile time polymorphism
```

```
    int add(int a, int b) {  
        return a + b;  
    }
```

```
    double add(double a, double b) {  
        return a + b;  
    }  
}
```

```
    //Method Overriding or Run time polymorphism
```

```
class AnimalDemo{  
    void sound() {  
        System.out.println("Animal makes a sound");  
    }  
}
```

```
class Cat extends AnimalDemo{  
    void sound() {  
        System.out.println("Cat makes a sound, Meowwww!!!");  
    }  
}
```

```
public class PolymorphismDemo {
```

```
    public static void main(String[] args) {
```

```
MathOp mo = new MathOp();  
System.out.println(mo.add(10, 20));  
System.out.println(mo.add(20.00, 40.00));
```

```
Cat ca = new Cat() ;  
ca.sound();
```

```
}
```

```
}
```