



## **Object Oriented Programming Lab – 03**

**Course Code: CSE215**

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## Problem 1: Overloading

### Part 1:

```
package com.example.hasan;

public class OverLoad {

    public void demo(int a) {
        System.out.println("a : " + a);
    }

    public void demo(int a, int b) {
        System.out.println("a and b " + a + " : " + b);
    }

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

}
```

### Part 2:

```
package com.example.hasan;

public class MethodToOverloading {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        OverLoad obj = new OverLoad();
        obj.demo(50);
        obj.demo(50, 60);
        double result = obj.demo(50.78);

        System.out.println("O/P : " + result);
    }

}
```

```
    }  
}
```

## Output:



The screenshot shows an IDE console window with the title bar containing tabs for Problems, Javadoc, Declaration, and Console. The console output is as follows:

```
<terminated> MethodToOverloading [Java Application] C:\Progra  
a : 50  
a and b 50 : 60  
a : 50.78  
O/P : 2578.6084
```

## Problem 2: Overriding

### Part 1:

```
package com.example.hasan;  
  
public class Base {  
    public void methodToOverride() {  
        System.out.println("This is a base class!");  
    }  
}
```

## Part 2:

```
package com.example.hasan;

public class Derived extends Base {

    public void methodToOverride() {
        System.out.println("This is a derivad class!");
    }

}
```

## Part 3:

```
package com.example.hasan;

public class Test {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        Base obj1 = new Base();
        Base obj2 = new Derived();

        obj1.methodToOverride();
        obj2.methodToOverride();

    }

}
```

## Output:

Problems @ Javadoc Declaration Console

<terminated> Test (1) [Java Application] C:\Program Files\Java\jre1.  
This is a base class!  
This is a derivad class!