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```
package Lab_6;

public class OverloadingExample {
    public void display(int a){
        System.out.println("Method with one integer argument: " +a);
    }

    public void display(int a, int b){
        System.out.println("Method with two integer argument: " + a + "," + b);
    }

    public void display(double d){
        System.out.println("Method with one double argument: " +d);
    }

    public void display(int a, String s){
        System.out.println("Method with an integer and a String: " + a +", " +s);
    }

    public static void main(String [] args){
        OverloadingExample obj = new OverloadingExample();

        obj.display(5);
        obj.display(5, 10);
        obj.display(5.5);
        obj.display(5, "Abdul Hasib Zahid");

    }
}
```

```
package Lab_6;

public class ChildClass extends ParentClass {
    @Override
    public void showMessage(){
        System.out.println("Message from child class");
    }
}
```

```
}
```

```
package Lab_6;
```

```
public class ParentClass {
```

```
    public void showMessage(){
```

```
        System.out.println("Message from Parent Class");
```

```
    }
```

```
}
```

```
package Lab_6;
```

```
public class OverRidingExample {
```

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

```
        ParentClass parent = new ParentClass();
```

```
        parent.showMessage();
```

```
        ChildClass child = new ChildClass();
```

```
        child.showMessage();
```

```
        ParentClass ref = new ChildClass();
```

```
        ref.showMessage();
```

```
    }
```

```
}
```

```
package Lab_6;
```

```
public class TypePromotion {
```

```
    public void m1(int i){
```

```
        System.out.println("Hello");
```

```
    }
```

```
    public void m1(float f){
```

```
        System.out.println("Java");
```

```
    }
```

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

```
        TypePromotion t = new TypePromotion();
```

```
        t.m1(10);
```

```
    t.m1(10.5f);  
    t.m1('a');  
    t.m1(101);  
}  
}
```