# Assignment 2:Method Overloading

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**Code:**

```java
class OverloadDemo {

    void test() {
        System.out.println("No parameters");
    }

    void test(int a) {
        System.out.println("One parameter: " + a);
    }

    void test(int a, int b) {
        System.out.println("Two parameters: " + a + ", " + b);
    }

    double test(double a) {
        System.out.println("One double parameter: " + a);
        return a * a;
    }
}

class OverloadDemoTest {
    public static void main(String args[]) {
        OverloadDemo ob = new OverloadDemo();

        ob.test();
        ob.test(10);
        ob.test(10, 20);
        double result = ob.test(5.5);

        System.out.println("Result=" + result);
    }
}
```

**OutPut:**

```
Windows PowerShell                                                  X

PS C:\Users\prath\Downloads> java OverloadDemoTest

No parameters
One parameter: 10
Two parameters: 10, 20
One double parameter: 5.5
Result=30.25
PS C:\Users\prath\Downloads>
```