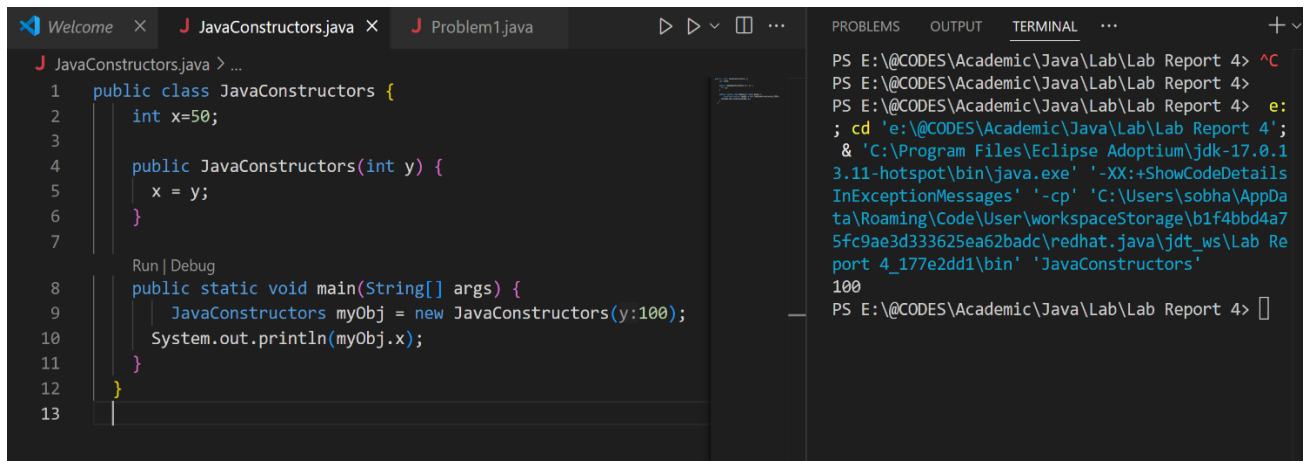


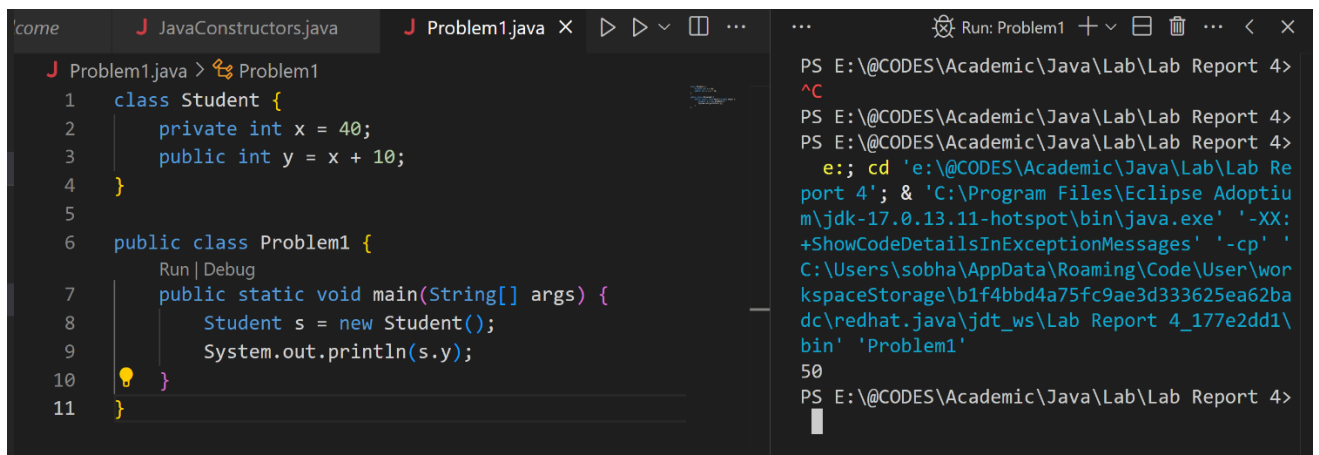
Problem 1: Parameterized Constructor in Java.



```
JavaConstructors.java > ...
1 public class JavaConstructors {
2     int x=50;
3
4     public JavaConstructors(int y) {
5         x = y;
6     }
7
8     public static void main(String[] args) {
9         JavaConstructors myObj = new JavaConstructors(y:100);
10        System.out.println(myObj.x);
11    }
12 }
13
```

```
PS E:\@CODES\Academic\Java\Lab\Lab Report 4> ^C
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
PS E:\@CODES\Academic\Java\Lab\Lab Report 4> e:
; cd 'e:\@CODES\Academic\Java\Lab\Lab Report 4';
& 'C:\Program Files\Eclipse Adoptium\jdk-17.0.1
3.11-hotspot\bin\java.exe' '-XX:+ShowCodeDetails
InExceptionMessages' '-cp' 'C:\Users\sobha\AppData
ta\Roaming\Code\User\workspaceStorage\b1f4bbd4a7
5fc9ae3d333625ea62badc\redhat.java\jdt_ws\Lab Re
port 4_177e2dd1\bin' 'JavaConstructors'
100
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
```

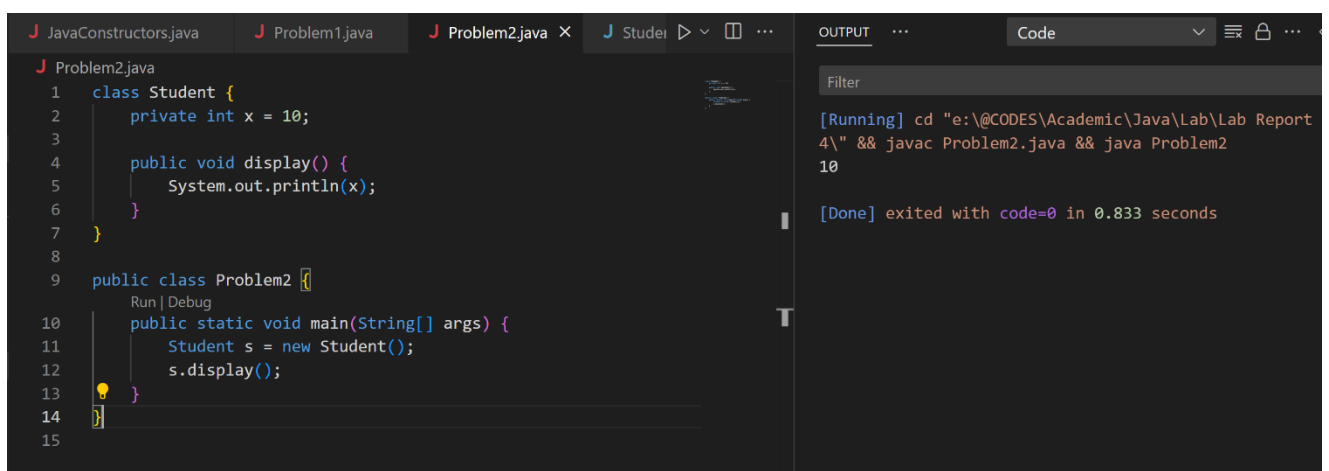
Problem 2: Demonstrating Encapsulation with Private and Public Variables.



```
Problem1.java > Problem1
1 class Student {
2     private int x = 40;
3     public int y = x + 10;
4 }
5
6 public class Problem1 {
7     public static void main(String[] args) {
8         Student s = new Student();
9         System.out.println(s.y);
10    }
11 }
```

```
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
^C
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
e;; cd 'e:\@CODES\Academic\Java\Lab\Lab Re
port 4'; & 'C:\Program Files\Eclipse Adoptiu
m\jdk-17.0.13.11-hotspot\bin\java.exe' '-XX:
+ShowCodeDetailsInExceptionMessages' '-cp' '
C:\Users\sobha\AppData\Roaming\Code\User\wor
kspaceStorage\b1f4bbd4a75fc9ae3d333625ea62ba
dc\redhat.java\jdt_ws\Lab Report 4_177e2dd1\
bin' 'Problem1'
50
PS E:\@CODES\Academic\Java\Lab\Lab Report 4>
```

Problem 3: Using Default Constructor and Method to Display Value.



```
Problem2.java
1 class Student {
2     private int x = 10;
3
4     public void display() {
5         System.out.println(x);
6     }
7 }
8
9 public class Problem2 {
10    public static void main(String[] args) {
11        Student s = new Student();
12        s.display();
13    }
14 }
15
```

```
OUTPUT
Filter
[Running] cd "e:\@CODES\Academic\Java\Lab\Lab Report 4\" && javac Problem2.java && java Problem2
10
[Done] exited with code=0 in 0.833 seconds
```