



Bangladesh University Of Business and Technology (BUBT)

**Advanced Programming Lab
Course code: CSE 332
Lab Assignment 2**

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Intake: 49**

**Github Link:
<https://github.com/AnayatHossain/Java-Lab-Assignment-2>**

**Submitted to:
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1. Write a java program to show No- Arguments Constructor.

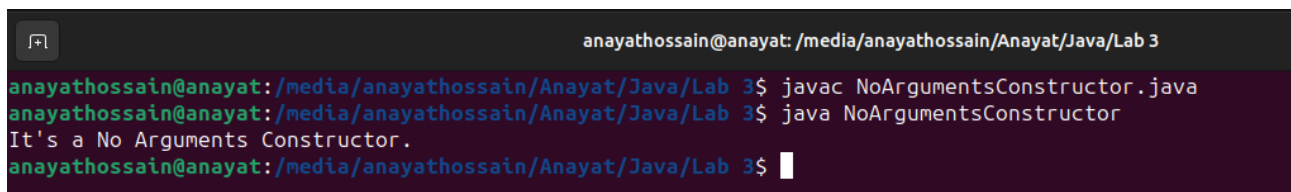
Code:

```
public class NoArgumentsConstructor {

    public NoArgumentsConstructor() {
        System.out.println("It's a No Arguments Constructor.");
    }

    public static void main(String[] args) {
        NoArgumentsConstructor a = new NoArgumentsConstructor();
    }
}
```

Output:

A terminal window with a dark background and light-colored text. The title bar at the top reads 'anayathossain@anayat: /media/anayathossain/Anayat/Java/Lab 3'. The terminal shows the following commands and output:
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$ javac NoArgumentsConstructor.java
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$ java NoArgumentsConstructor
It's a No Arguments Constructor.
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$

2. Write a Java code to display parameterized Constructor in java.

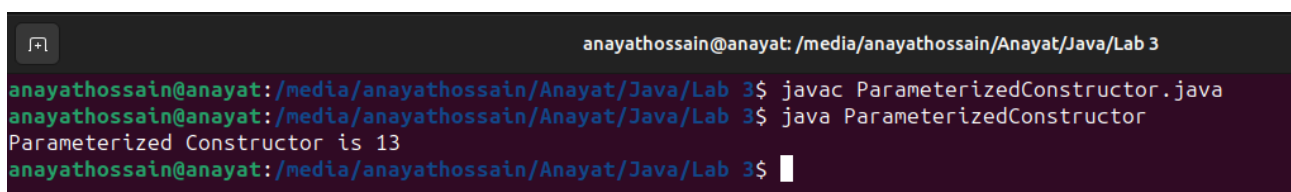
Code:

```
public class ParameterizedConstructor {
    static int value;

    public ParameterizedConstructor(int a) {
        value = a;
        System.out.println("Parameterized Constructor is " + a);
    }

    public static void main(String[] args) {
        ParameterizedConstructor obj = new ParameterizedConstructor(13);
    }
}
```

Output:

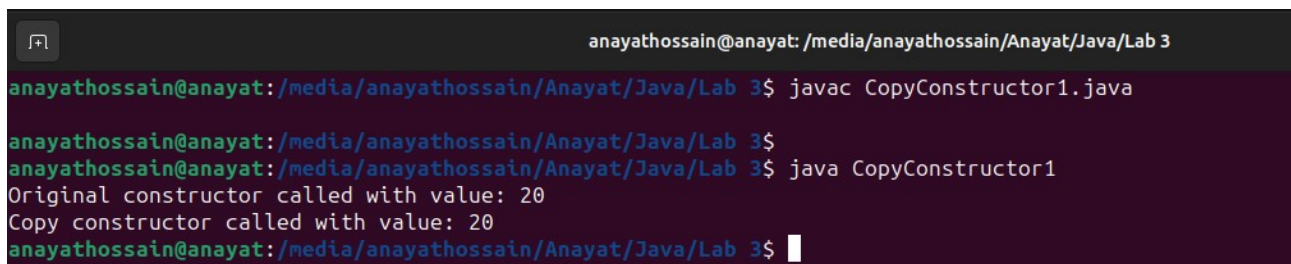
A terminal window with a dark background and light-colored text. The title bar at the top reads 'anayathossain@anayat: /media/anayathossain/Anayat/Java/Lab 3'. The terminal shows the following commands and output:
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$ javac ParameterizedConstructor.java
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$ java ParameterizedConstructor
Parameterized Constructor is 13
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3\$

3. Write a Java code to copy a constructor by another Constructor.

Code:

```
public class CopyConstructor1 {  
  
    int value;  
  
    public CopyConstructor1(int a) {  
        value = a;  
        System.out.println("Original constructor called with value: " + a);  
    }  
  
    public CopyConstructor1(CopyConstructor1 m) {  
        value = m.value;  
        System.out.println("Copy constructor called with value: " + value);  
    }  
  
    public static void main(String[] args) {  
        CopyConstructor1 c1 = new CopyConstructor1(20);  
        CopyConstructor1 c2 = new CopyConstructor1(c1);  
    }  
}
```

Output:



```
anayathossain@anayat: /media/anayathossain/Anayat/Java/Lab 3  
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ javac CopyConstructor1.java  
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$  
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ java CopyConstructor1  
Original constructor called with value: 20  
Copy constructor called with value: 20  
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$
```

4. Write a Jva code to copy a constructor by assigning the values of one object into another.

Code:

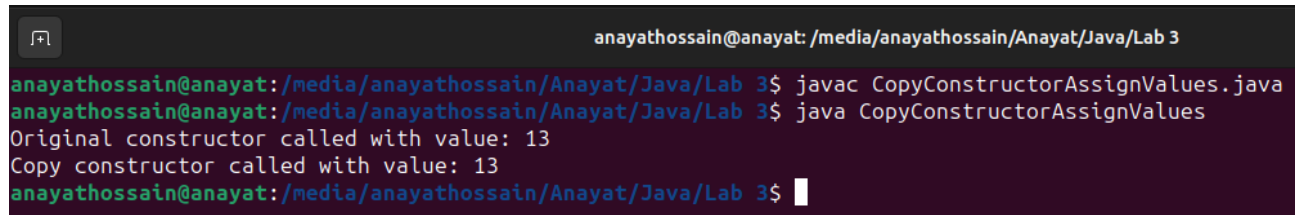
```
public class CopyConstructorAssignValues {  
    int value;  
  
    public CopyConstructorAssignValues(int v) {  
        value = v;  
        System.out.println("Original constructor called with value: " + v);  
    }  
  
    public CopyConstructorAssignValues(CopyConstructorAssignValues a) {  
        value = a.value;  
        System.out.println("Copy constructor called with value: " + value);  
    }  
}
```

```

public static void main(String[] args) {
CopyConstructorAssignValues c1 = new CopyConstructorAssignValues(13);
CopyConstructorAssignValues c2 = new CopyConstructorAssignValues(c1);
}
}

```

Output:



```

anayathossain@anayat: /media/anayathossain/Anayat/Java/Lab 3
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ javac CopyConstructorAssignValues.java
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ java CopyConstructorAssignValues
Original constructor called with value: 13
Copy constructor called with value: 13
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$

```

5. Write a Java program to find the addition of two number using JOptionPane class.

Code:

```

public class ConstructorCallingAnotherConstructor {
int value;

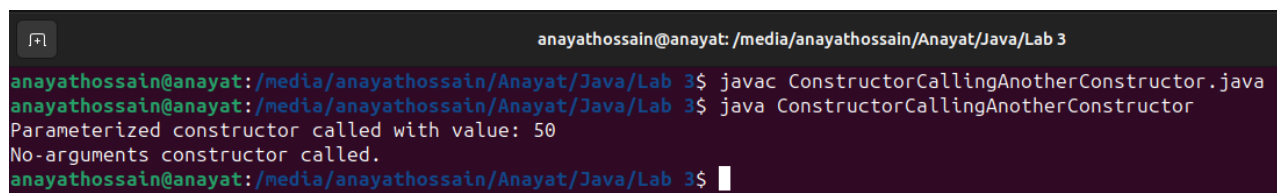
public ConstructorCallingAnotherConstructor() {
this(50);
System.out.println("No-arguments constructor called.");
}

public ConstructorCallingAnotherConstructor(int v) {
this.value = v;
System.out.println("Parameterized constructor called with value: " + v);
}

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

```

Output:



```

anayathossain@anayat: /media/anayathossain/Anayat/Java/Lab 3
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ javac ConstructorCallingAnotherConstructor.java
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$ java ConstructorCallingAnotherConstructor
Parameterized constructor called with value: 50
No-arguments constructor called.
anayathossain@anayat:/media/anayathossain/Anayat/Java/Lab 3$

```