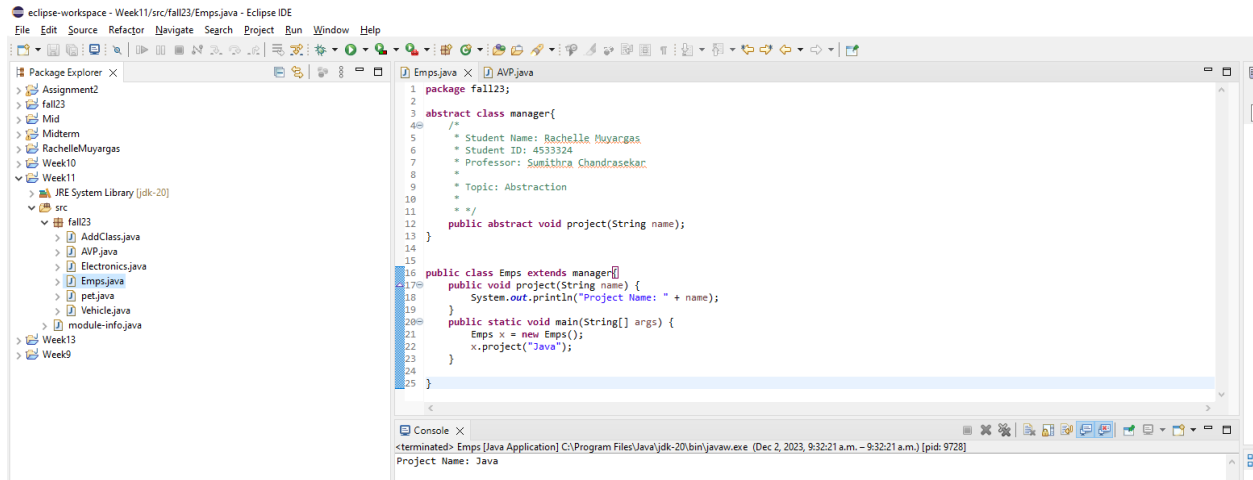


Rachelle Muyargas

4533324

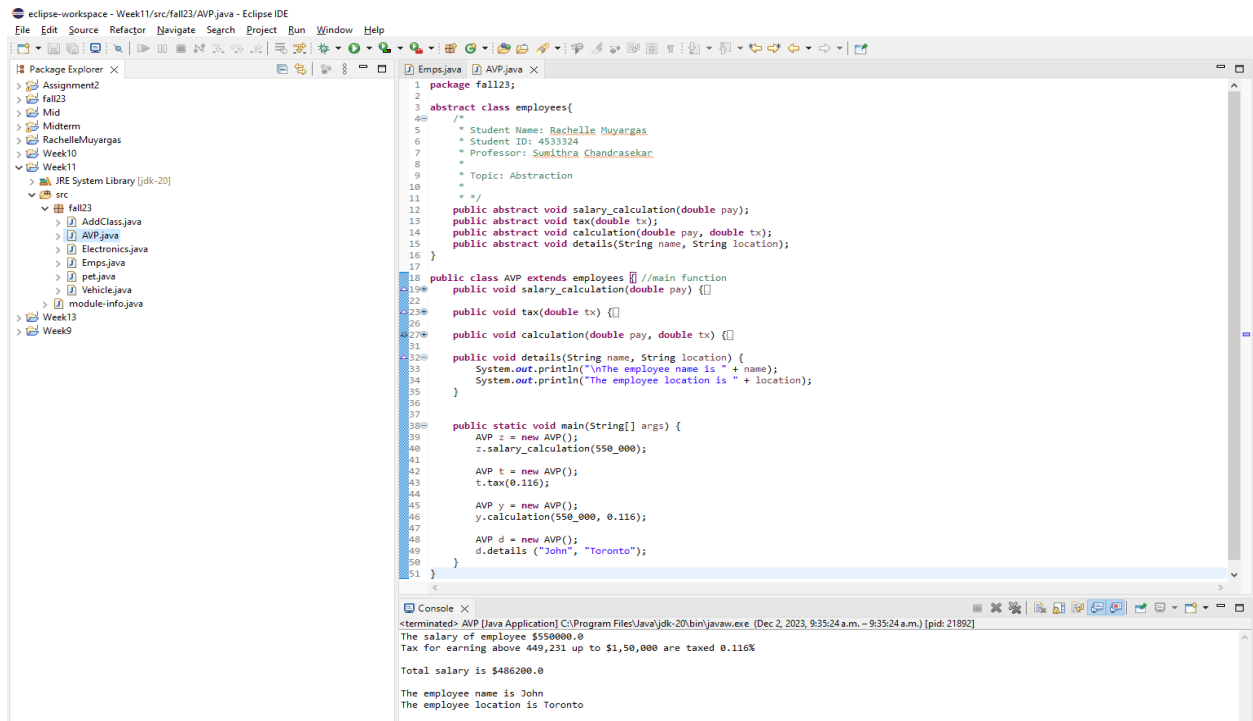
PROG1124-G11

Learning Activity



```
1 package fall123;
2
3 abstract class manager{
4     /*
5      * Student Name: Rachelle Muyargas
6      * Student ID: 4533324
7      * Professor: Sumithra Chandrasekar
8      *
9      * Topic: Abstraction
10     */
11 }
12 public abstract void project(String name);
13 }
14
15
16 public class Emvs extends manager{
17     public void project(String name) {
18         System.out.println("Project Name: " + name);
19     }
20     public static void main(String[] args) {
21         Emvs x = new Emvs();
22         x.project("Java");
23     }
24 }
25 }
```

<terminated> Emvs [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Dec 2, 2023, 9:32:21 a.m. - 9:32:21 a.m.) [pid: 9728]
Project Name: Java



```
1 package fall123;
2
3 abstract class employees{
4     /*
5      * Student Name: Rachelle Muyargas
6      * Student ID: 4533324
7      * Professor: Sumithra Chandrasekar
8      *
9      * Topic: Abstraction
10     */
11 }
12 public abstract void salary_calculation(double pay);
13 public abstract void tax(double tx);
14 public abstract void calculation(double pay, double tx);
15 public abstract void details(String name, String location);
16 }
17
18 public class AVP extends employees { //main function
19     public void salary_calculation(double pay) {}
20     public void tax(double tx) {}
21     public void calculation(double pay, double tx) {}
22     public void details(String name, String location) {
23         System.out.println("\nThe employee name is " + name);
24         System.out.println("The employee location is " + location);
25     }
26 }
27
28 public static void main(String[] args) {
29     AVP z = new AVP();
30     z.salary_calculation(550_000);
31     AVP t = new AVP();
32     t.tax(0.116);
33     AVP y = new AVP();
34     y.calculation(550_000, 0.116);
35     AVP d = new AVP();
36     d.details ("John", "Toronto");
37 }
38 }
```

<terminated> AVP [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Dec 2, 2023, 9:35:24 a.m. - 9:35:24 a.m.) [pid: 21892]
The salary of employee \$550000.0
Tax for earning above 449,231 up to \$1,50,000 are taxed 0.116%
Total salary is \$486200.0
The employee name is John
The employee location is Toronto

eclipse-workspace - Week13/src/fall23/Bank.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- Assignment2
- fall23
 - Mid
 - Midterm
 - RachelleMuyargas
 - Week10
 - Week11
 - Week13
 - JRE System Library [jdk-20]
 - src
 - fall23
 - Bank.java
 - module-info.java
 - Week9

Emps.java AVP.java Bank.java

```
1 package fall23;
2
3 interface customer{
4     /*
5      * Student Name: Rachelle Muyargas
6      * Student ID: 4533324
7      * Professor: Sumithra Chandrasekar
8      */
9     /* Topic: Interface
10     */
11     */
12     public void credentials(String Name, String Password);
13 }
14
15 public class Bank implements customer {
16     public void credentials(String Username, String Password) {
17         System.out.println("username: " + Username);
18         System.out.println("password: " + Password);
19     }
20
21     public static void main(String[] args) {
22         Bank z = new Bank();
23         z.credentials("moonshinea", "L4vandeerx");
24     }
25 }
26
27
```

Console

<terminated> Bank [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Dec 2, 2023, 9:40:37 a.m. - 9:40:37 a.m.) [pid: 6328]

username: moonshinea
password: L4vandeerx

eclipse-workspace - Week13/src/fall23/Bank.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- Assignment2
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 - RachelleMuyargas
 - Week10
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 - Week13
 - JRE System Library [jdk-20]
 - src
 - fall23
 - Bank.java
 - module-info.java
 - Week9

Emps.java AVP.java Bank.java

```
1 package fall23;
2
3 import java.util.*;
4
5 interface customer {
6     /*
7      * Student Name: Rachelle Muyargas
8      * Student ID: 4533324
9      * Professor: Sumithra Chandrasekar
10     */
11     /* Topic: Interface
12     */
13     */
14     public void credentials(String Username, String Password);
15     public void IFSC(); // get user input
16 }
17
18
19 public class Bank implements customer {
20     public void credentials(String Username, String Password) {
21         System.out.println("username: " + Username);
22         System.out.println("password: " + Password);
23     }
24
25     public void IFSC() {
26         System.out.println("Bank name is RBC");
27     }
28
29     public static void main(String[] args) {
30         Bank z = new Bank();
31         z.credentials("moonshinea", "L4vandeerx");
32
33         Scanner sc = new Scanner(System.in);
34         System.out.print("\nEnter IFSC code: ");
35         String code = sc.nextLine();
36         z.IFSC();
37     }
38 }
39
```

Console

<terminated> Bank [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Dec 2, 2023, 10:06:35 a.m. - 10:06:39 a.m.) [pid: 19104]

username: moonshinea
password: L4vandeerx

Enter IFSC code: 123abc
Bank name is RBC

eclipse-workspace - Week13/src/fall23/Bell.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- Assignment2
- fall23
- Mid
- Midterm
- RachelleMuyargas
- Week10
- Week11
- Week13
 - JRE System Library [jdk-20]
 - src
 - fall23
 - Bank.java
 - Bell.java
 - module-info.java
 - Week9

Emps.java AVP.java Bank.java Bell.java

```
4 interface clients{
5     public void message();
6     public void call();
7 }
8
9 public class Bell implements clients{
10     public void message() {
11         System.out.println("");
12     }
13
14     public void call() {
15         Scanner sc = new Scanner(System.in);
16
17         System.out.println("Enter a message: ");
18         String msg = sc.nextLine();
19         long start = System.currentTimeMillis();
20
21         try {
22             System.in.read();
23             long finishTime = System.currentTimeMillis();
24             System.out.println((finishTime - start)/1000);
25         } catch (IOException e) {
26             e.printStackTrace();
27         }
28     }
29 }
30
31 public static void main(String[] args) {
32     Bell b = new Bell();
33     b.call();
34
35
36
37
38
39
40 }
41
```

Console

<terminated> Bell [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Dec 2, 2023, 11:34:35 a.m. - 11:34:35 a.m.)

Enter a message:

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2