

Option #1

Pseudocode:

Class Module3

Method main(arguments)

PROMPT user to enter weekly income

READ weeklyIncome

IF weeklyIncome < 500 THEN

 taxRate = 0.10

ELSE IF weeklyIncome < 1500 THEN

 taxRate = 0.15

ELSE IF weeklyIncome < 2500 THEN

 taxRate = 0.20

ELSE

 taxRate = 0.30

taxWithholdings = weeklyIncome * taxRate

OUTPUT "Weekly income: " + weeklyIncome

OUTPUT "Tax rate: " + taxRate

OUTPUT "Tax withholdings: " + taxWithholdings

Source Code:

```
import java.util.Scanner;
```

```
public class Module3 {
```

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

```
        Scanner scnr = new Scanner(System.in);
```

```
        double weeklyIncome;
```

```
        double taxRate;
```

```
        double taxWithholdings;
```

```
        System.out.println("Enter your weekly income:");
```

```
        weeklyIncome = scnr.nextDouble();
```

```
        if (weeklyIncome < 500) {
```

```
            taxRate = 0.10;
```

```
        } else if (weeklyIncome < 1500) {
```

```
            taxRate = 0.15;
```

```
        } else if (weeklyIncome < 2500) {
```

```
            taxRate = 0.20;
```

```

    } else {
        taxRate = 0.30;
    }

    taxWithholdings = weeklyIncome * taxRate;
    System.out.println("Weekly income: " + weeklyIncome);
    System.out.println("Tax rate: " + taxRate);
    System.out.println("Tax withholdings: " + taxWithholdings);
}
}

```

Screenshot of application execution:

```

Module3 > J Module3.java > ...
1  import java.util.Scanner;
2
3  public class Module3 {
4      Run | Debug
      public static void main(String[] args) {
5          Scanner scnr = new Scanner(System.in);
6          double weeklyIncome;
7          double taxRate;
8          double taxWithholdings;
9
10         System.out.println("Enter your weekly income:");
11         weeklyIncome = scnr.nextDouble();
12
13         if (weeklyIncome < 500) {
14             taxRate = 0.10;
15         } else if (weeklyIncome < 1500) {
16             taxRate = 0.15;
17         } else if (weeklyIncome < 2500) {
18             taxRate = 0.20;
19         } else {
20             taxRate = 0.30;
21         }
22
23         taxWithholdings = weeklyIncome * taxRate;
24         System.out.println("Weekly income: " + weeklyIncome);
25         System.out.println("Tax rate: " + taxRate);
26         System.out.println("Tax withholdings: " + taxWithholdings);
27     }
28
29 }
30
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\andre\Documents\WCSO_Prereqs\CS320\Critical_Thinking\Module3> java Module3
Enter your weekly income:
500
Weekly income: 500.0
Tax rate: 0.15
Tax withholdings: 75.0

```

Git Repository

https://github.com/ac-potts/CS320_CritThinking/tree/main/Module3