

CRITICAL THINKING ASSIGNMENT #3 OPTION 1



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Pseudocode:

// Create a Static method called taxCalc to calculate tax withholding

- 1. Declare a variable named taxRate
- 2. If income is less than 500, set taxRate to 10%
- 3. Else if income is between 500 and 1500, set taxRate to 15%
- 4. Else if income is between 1500 and 2500, set taxRate to 20%
- 5. Else, set taxRate to 30%

```
// Define the variables
```

Income

avgTaxWidhholding

// Prompt the User input for income

Income

// Call the Method for Tax Withholding

taxCalc

// Print results

PRINT "The weekly average tax withholding of income: ", avgTaxWidhholding

// Resource leak input close

input

Screenshot Code:

```
public class Widthholding {
     // Static method to calculate tax withholding
public static double taxCalc(double income) {
         // tax rate
double taxRate;
         taxRate = 0.10;
         } else if (income >= 500 && income < 1500) {
              taxRate = .15;
         } else if (income >= 1500 && income < 2500) {
              taxRate = .20;
         } else {
              taxRate = .30;
         // return income by tax rate
         return income * taxRate;
     public static void main(String[] args) {
         // import scanner class
Scanner input = new Scanner(System.in);
         // variables
         double income;
double avgTaxWidhholding;
         // user input
          System.out.println("Enter income: ");
         income = input.nextDouble();
         // calling method to calculate tax withholding
avgTaxWidhholding = taxCalc(income);
         // print results
System.out.printf("The weekly average tax widthholding of $%.2f is: $%.2f ", income, avgTaxWidhholding);
         // close input for resource leak
input.close();
```

Results:

```
Enter income:
400
The weekly average tax widthholding of $400.00 is: $40.00
Enter income:
500
The weekly average tax widthholding of $500.00 is: $75.00
Enter income:
1500
The weekly average tax widthholding of $1500.00 is: $300.00
```