

# Enon Java Training

## Worksheet 3

Instructions: **Retirement gift.** Write a program that takes the current age of a person that is retiring along with the amount of years she has worked for the company. The person will receive a gift based on the following criteria:

criteria 1: If she is 65 years old or older she receives a gold watch

criteria 2: If she is less than 65 years old, but has worked for the company for 25 years or more, she receives a silver watch.

- If neither of those criteria are met, she gets a really nice pen.

1. Enter a block comment at the beginning of your file giving details on your program, your contact information, and the date that the program was modified.
2. Prompt the user to enter the person's **age** and **years worked** using **JOptionPane** and store the numbers in integer variables
3. Use a **multibranch if-else** statement to determine what gift the retiree should receive and print a message to the screen, for e.g. "The retiree will receive a Silver watch".
4. Once you have done so, **have the TA check your work before you continue.**
5. After the TA has checked your code for correctness, refactor your code to use a **nested if-else statement** to do the same thing as above.

Alternatively you can comment out your old code instead of changing it so that you can look back at it later. Ask the TA for assistance if you need help doing this.

6. Once you have done so, **have the TA check your work before you continue.**
7. The company has changed its policies. As long as you meet **criteria 1 or criteria 2** the retiree will receive a gold watch. Refactor your code to use a simple if-else statement and a single boolean expression to represent both criteria. It should look like this:

```
if (Boolean_Expression) {  
    System.out.println("The retiree gets a Gold watch")  
} else {  
    System.out.println("The retiree doesn't get anything");  
}
```

8. **Have the TA check your work.**