

You can find multiple choice review questions in D2L under: **Assessments->Quizzes**

For all questions, unless otherwise specified assume that there are no syntax errors in any programs or program fragments.

### **Short answer 1 (code writing):**

The following is a modification of an actual tax system.

- If income is \$10,822 or less then you pay no income tax.
- Income over \$10,822 up to and including 43,561 is taxed at 15%.
- For income more than \$43,561, but not more than or at \$87,123, the tax rate is 22%.
- For income more than \$87,123, but lower than or at \$135,054, the tax rate is 26%.
- For income is more than \$135,054, the tax rate is 29%.

For the purposes of this question a person will only be classified into one of the above tax brackets e.g., a person earning \$100,000 pays a 26% tax rate. Augment the program below (i.e. you need to use existing code not replace or duplicate it) so that it calculates and displays: the amount of tax owed and income after taxes have been deducted.

```
grossIncome = 0
taxesOwed = 0
incomeAfterTaxes = 0
taxRate = 0
grossIncome = int(input("Enter your yearly income: "))
# On an actual exam you would write your answer here
```

```
# End of answer space
taxesOwed = grossIncome * taxRate
incomeAfterTaxes = grossIncome - taxesOwed
print("Gross income %d" %grossIncome)
print("<Less tax %d>" %taxesOwed)
print("Income after taxes %d" %incomeAfterTaxes)
```

## Short answer 2 (code writing):

In order for someone to be hired for a job, the candidate must be a Canadian citizen ('c') and have one of the following: an 'applied' university degree ('bcomm' or 'bsc') or greater than ten years of work experience. Modify the following program so that the message 'hired' appears if the candidate meets the above qualifications and 'not hired' if the person does not.

```
citizen = input("Canadian citizen? (n = not citizen, c =  
    citizen): ")  
xp = int(input("Years of work experience: "))  
degree = input("Type of university degree (ba, bcomm, bsc, bfa): ")
```

**# On an actual exam you would write your answer here**

**# End of answer space**