Pseudocode CXC Practice Questions

1) Write a psedocode algorithm to read a set of positive integers (terminated by 0) and print their average as well as the largest of the set.

2) Write a Pseudocode algorithm to print a conversion table from miles to kilometers. The table ranges from 5 to 100 miles in steps (1 mile = 1.61 kilometers).

3) Write a Pseudocode algorithm to read the names and ages of ten (10) people and print the name of the oldest person. Assume that there are no persons of the same age. Data is supplied in the following form: name, age, name age etc.

4) What is printed by the following algorithm when n=5?

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If(n = 1) or (n=2) then
    h= 1
else
    f=1
    g=1
    for j = 1 to n-2 do
        h=f+g
        f=g
        g=h
        print h
    endfor
endif
print f, g
stop
```

5) Write a Pseudocode algorithm to read three numbers and print the highest and lowest number.
6) Define the following:
    a) Source Code
    b) Object Code
    c) Compiler

7) Draw a label to illustrate the relationship between source code, object code and compiler.
8) Write a Pseudocode algorithm which prompts the user to enter the price of an item and which calculates and prints the new price after a discount of 12%.
9) Write an algorithm to read ELEVEN numbers find their average and print it. The algorithm should also print the number of times 6 occurs in the data. For example, given the input data: 8, 4, 6, 9, 6, 5, 6, 10, 7, 0, 16
10) Explain the difference between high level programming language and machine level language.