### ITE3101 Introduction to Programming – CA Test Revision Exercise

1. Given the following declarations and initial assignments, please state the result of the following expressions:   
     
   first, second, third = 10.3, 5.7, 4.9  
    T T
   1. first > 2.8 and 0.8 < third True / False  
       F F
   2. False or first != first True / False  
       not(T) = F
   3. not(second > 1.4) True / False
   4. "SUPER" == "super" True / False
2. Write a Python program to prompt user to input a positive integer number (n) and then display 2 times (n) dollar (‘$’) on the screen (see the following output).

|  |  |  |
| --- | --- | --- |
| Please input a number:  4  $$$$ $$$$$$$$ | Please input a number:  g  Invalid Number! |  |

Write a python program to do the above.

### To complete a Python program according to the following description. Use square ( D:\Document\ShareX\Screenshots\2019-10\WINWORD_oodeUPJIpC.png ) to represent space. i.e. D:\Document\ShareX\Screenshots\2019-10\WINWORD_5YtK8VkRpJ.png for 2 space.

* 1. Define a function name **func** with parameter x in integer and return integer type.
  2. Function **func** return **x2+2x+1**.
  3. Define function name **checking** with **2** input parameters :  
     **i** as integer, **j** as integer. And function **checking** returns integer.
  4. Define a variable **count** equals to 0.
  5. Start a while loop with checking condition :after calling **func**(**i),**. The final result has to less than **j**.

Inside the while loop,

* 1. Increment **count** by 1
  2. After the while loop, return **count**.

1. Write down a nested list (a 2D List) declaration to store the below two-dimensional table into a variable **record**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Age** | **Location** | **Position** |
|  | Judy | 20 | Tai Po | Clark |
|  | Tom | 25 | Fanling | Sales |
|  | Peter | 18 | Sha Tin | Programmer |

1. Write down a list of Dictionary declaration to store the below two-dimensional table into a variable **record**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Age** | **Location** | **Position** |
|  | Judy | 20 | Tai Po | Clark |
|  | Tom | 25 | Fanling | Sales |
|  | Peter | 18 | Sha Tin | Programmer |

\*\*End of Revision Exercise\*\*