Read Chapter 5, section 5.1, 5.3, 5.5, 5.6, 5.7 and 5.10 of “How to Think Like a Computer Scientist: Learning with Python 3”:

<http://www.ict.ru.ac.za/Resources/cspw/thinkcspy3/thinkcspy3.pdf>

And then answer the following questions:

1. What is Boolean? Write down 3 different expression that results a Boolean type (i.e. 5 == 6)

A Boolean value is either True or False

1, 4 != 5

2, 6 > 2

3, 7 < 9

1. What is a flow chart? Draw flow chart for the following code snippet: (you can draw on a paper, take a picture of it)

if name == “Anh Quan":

   print(“Hand some")

elif name == “Minh Duc":

   even\_more\_handsome = True

else:

   webbrowser.open(“<https://www.youtube.com/watch?v=04854XqcfCY>”)

1. What is nested conditionals? Write a piece of code that uses nested conditionals

Nested conditional is to express that one conditional can also be nested within another.

Ex: if -3 > x and x >-10:

print (“x is a negative single digit”)

**Exercise 1:**

Learn how to break an infinite loop using break keyword

Write an example of what you have learned

**Exercise 2:**

Read session 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.8, 11.9, 11.12 of the following book:

<http://www.ict.ru.ac.za/Resources/cspw/thinkcspy3/thinkcspy3.pdf>

And then answer the following questions:

* What is nested list?

A list within another list is said to be nested.

* Can a list store both integers and strings in it?

yess