# STUDY

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)

Boolean is a value of True or False (only 2 option of values)

3 different expression for Boolean type:

|  |  |  |
| --- | --- | --- |
| 4 == 1+3 >>> True | N = “oh”  M = “yeah”  N + M == “oyyeah” >>> True | 4 > 3 >>> True |
| 5 == 1+1 >>> False | N = “oh”  M = “yeah”  N + “yeah” != “oyyeah” >>> False | 3 >= 2 >>> True |

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 == “Huy be":

   print(“Hand some")

elif name == “Huy big":

   even\_more\_handsome = True

else:

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

Name = “Huy be”

True

Print( “Hand some”

False

Name = “Huy big”

True

Even\_more\_handsome = True

False

Webbrowser.open

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

Nested conditionals is a combination of many conditional, in which one condition can also be nested within another.

Sample code:

If x > y:

Print (“x is bigger than y”)

Else:

If x = y:

Print (“x is equal to y”)

Else:

Print (“x is smaller than y”)