Programming Assignment 1

- 1. For each of the following expression, determine the type and value:
 - A) 5 + 3 / 5 * (4 10)
 - B) 17 // 3 ** 4
- 2. Evaluate the following boolean expressions:
 - A) 15 % 4 < 20 / 3
 - B) False or not (False or True) and True
 - C) 3/4 == 0 or 5 < 6
- 3. Let a = True, b = True, c = False. Evaluate the following:
 - A) a and not b
 - B) borc
 - C) not b == c
 - D) a and not c
 - E) b or c and not a
 - F) a != b or b != c
- 4. Select all invalid variable names below and give reason the variable name is invalid:
 - A) speed Of Light
 - B) x_2
 - C) 3Attempts
 - D) vertical-distance
 - E) B5V
- 5. In a script file, write a program that initializes a variable to store the length of a square in inches, calculates the perimeter and area of the square, and outputs the results. Test it by changing the initial value to different ones.
- 6. Write a program that will initialize a variable that stores a number of seconds and then calculate in different variables, the equivalent number of hours, minutes and seconds. For example, 300 seconds is 0 hours, 5 minutes and 0 seconds while 4503 seconds is 1 hour, 15 minutes and 3 seconds.