Hand your completed quiz in before the due date. Do not forget to write down your **name and student ID number**. Marks will be awarded for this quiz based on the clarity of your answers. The marker will pay close attention to the logic of your answers. **Please show all your working.**

Q.1 What will you get if you type the following in Python? Can you tell without using Python?

   a. for count in range(5):
      print(count + 1, end = ' ')

   b. for count in range(1,4):
      print(count, end = ' ')

   c. for count in range(1,6,2):
      print(count, end = ' ')

   d. for count in range(6,1,-1):
      print(count, end = ' ')

Q.2 Write a Python code that prints your name 100 times. Each output should begin on a new line.

Q.3 Assume that $x$ is 3 and $y$ is 5. Write the values of the following expressions (without using Python).

   a. $x == y$
   b. $x > y - 3$
   c. $x <= y - 2$
   d. $x == y$ or $x > 2$
   e. $x != 6$ and $y > 10$
   f. $x > 0$ and $x < 100$

Q.4 Assume that $x$ refers to a number. Write a code that prints the number’s absolute value without using Python’s `abs` function.

Q.5 Write a loop that counts the number of space characters in a string. Recall that the space character is represented as ` ' `.

Q.6 The variables $x$ and $y$ refer to numbers. Write a code that prompts the user for an arithmetic operator (`+, -, *, /`) and prints the value obtained by applying that operator to $x$ and $y$. 