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 Let the variable \( x \) be ‘‘dog’’ and the variable \( y \) be ‘‘cat’’. What do you get if you write the following in Spyder?

1. \( x + y \)
2. ‘‘the ’’ + x + ‘‘ chases the ’’ + y
3. \( x \times 4 \)

Q.2 Which of following are valid variable names?

1. length
2. \_width
3. firstBase
4. 2More
5. stop!

Q.3 Write a Python program that does the following job and displays the result. Add appropriate comments to explain your code.

1. Set \( x = 2 \) and \( y = 11 \).
2. Compute \( x + y \times 3 \).
3. Compute \( x^y \).
4. Compute the remainder when \( y \) is divided by \( x \).
5. Compute the quotient when \( y \) is divided by 2.

Q.4 Let \( x = 4.66 \). What do you get if you write the following code in Python?

1. round(x)
2. int(x)

Q.5 Assume that the variable \( x \) has the value 55. Use an assignment statement to increase the value of \( x \) by 1. (Hint: Set \( x = 55 \). Then write \( x = x + 1 \) and display \( x \) value.)

Q.6 What will you get if you put the following code in Python?

```python
a1 = 1
a2 = 1
a3 = a1 + a2
a4 = a2 + a3
a4 = a4 + 1
print(a4)
```