## L04 Participation Assignment – functions

### **Background**

Explore the use of fuctions.

### **Procedure**

Answer the following questions.

1. Review the following code that calculates adding tax to the price of an item. Copy the code to a Python file and ensure it works as expected.

## tax.no\_function.py

done = False

while not done:

sentinel = str.upper(input(f'Enter Q for quit or any other key to compute tax '))

if sentinel == 'Q':

done = True

print(sentinel,done)

continue

else:

print("Compute tax")

price = float(input('What is the price '))

tax = float(input('What is the tax rate? '))

calculated\_price = price \* (100 + tax) / 100

print(f'The calculated price is {calculated\_price}')

1. Rewrite the tax.no\_function.py module using a function for get\_inputs() and calculate\_price\_with\_tax(). Paste your code here:
2. def get\_inputs():
3. return str.upper(input(f'Enter Q for quit or any other key to compute tax '))
4. def calculate\_price\_with\_tax():
5. price = float(input('What is the price '))
6. tax = float(input('What is the tax rate? '))
7. return price \* (100 + tax) / 100
8. done = False
9. while not done:
10. sentinel = get\_inputs()
11. if sentinel == 'Q':
12. done = True
13. print(sentinel,done)
14. continue
15. else:
16. print("Compute tax")
17. print(f'The calculated price is {calculate\_price\_with\_tax()}')
18. Create a Python module with a function named add\_mult(). (refer to L04 slide #18)
    1. Pass in two parameters
    2. Return x + y and x\* y
    3. Print the add\_mult function while passing in 10, 20
    4. Paste code below:
19. def add\_mult(x, y):
20. return x + y and x \* y
21. print(add\_mult(10, 20))

1. Submit this word document to Canvas.