## Lab 1 Report

**Note** To answer the questions, change the font color of your responses to each of the questions below to red.

1. Explain the script below line by line after the pound sign (#).

# import OS module

import os

# assign os variable path as the project folder in the current working directory

path = './projects'

# check if the folder projects exists

if not os.path.exists(path):

# Create new folder called projects

os.mkdir(path)

1. Why does this expression cause an error? How can you fix it?

print('I ran ' + 10 + ' miles today.')

Can you fix it in **two** different ways?

Answer:

This is a TypeError with the string and number being mixed. Solution is to change the number to string by changing 10 to ’10’ or to str(10).

1. Given the for loop below:

for i in range(-1, -10, -2):

print(i)

Given the function range()’s arguments, without typing the statements in the interactive shell, can you tell me what are the outputs? Provide the calculation detail.

Answer:

-1,-3,-5,-7,-9. Start at -1, increment by -2, and stop if less than -10

1. State two differences between method and function in Python. Provide one example of function and method that we have learned, respectively.

Answer:

Methods are for classes while functions can be called regardless of the class. Methods require self, while functions do not.

Function Example: print()

Method Example: list.remove()