CSC1024 Programming Principles
Coding Exercise 2

1. Draw a flowchart for the Python program as shown in Listing 1.

```python
num = int(input('Enter a number: '))
if num > 0:
    print('Your number is positive')
    if num < 0:
        print('Your number is negative')
        if num == 0:
            print('Your number is zero')
            print ('Finished!')
```

Listing 1 Python program 1

2. Draw a flowchart for the Python program as shown in Listing 2.

```python
num1 = float(input('Enter Num1: '))
num2 = float(input('Enter Num2: '))
operation = input ('Select +, -, *, /: ')
if operation == '+':
    print(str(num1)+'+'+str(num2)+ '=', num1+num2)
elif operation =='-':
    print(str(num1)+'-'+str(num2)+ '=', num1-num2)
elif operation =='*':
    print(str(num1)+'-'+str(num2)+ '=', num1*num2)
elif operation =='/':
    print(str(num1)+'-'+str(num2)+ '=', num1/num2)
else:
    print('ERROR! Wrong Selection.')
```

Listing 2 Python program 2

3. Draw a flowchart for the Python program as shown in Listing 3.

```python
username = input('Enter Username: ')
if username.upper()=='MATTHEW':
    password = input('Enter Password: ')
    if password == 'SUNWAY':
        print('ACCESS GRANTED')
    else:
        print('ACCESS DENIED!')
else:
    print('ACCESS DENIED!')
```

Listing 3 Python program 3