Gabriel, John Michael C. *Programming*

2ECE-E *Extra Assignment*

Screenshots of Codes

Problem 1: Vowel or Consonant

Editor - C:\Users\johng\Documents\School Documents\ENGINEERING 2ND YEAR\PROGRAMMING\Python Codes\letters.py

letters.py | squaresum.py | leapyear.py

```
letter = str(input("Input a letter: "))
if letter == "A":
    print ("The letter is a vowel.")
elif letter == "E":
    print ("The letter is a vowel.")
elif letter == "I":
    print ("The letter is a vowel.")
elif letter == "O":
    print ("The letter is a vowel.")
elif letter == "U":
    print ("The letter is a vowel.")
elif letter == "a":
    print ("The letter is a vowel.")
elif letter == "e":
    print ("The letter is a vowel.")
elif letter == "i":
    print ("The letter is a vowel.")
elif letter == "o":
    print ("The letter is a vowel.")
elif letter == "u":
    print ("The letter is a vowel.")
else:
    print ("The letter is a consonant.")
```

Editor Window

IPython console

Console 1/A

```
Input a letter: A
The letter is a vowel.

In [34]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/letters.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a letter: B
The letter is a consonant.

In [35]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/letters.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a letter: e
The letter is a vowel.

In [36]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/letters.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a letter: d
The letter is a consonant.

In [37]:
```

Python Console

Problem 2: Squaresum

Editor - C:\Users\johng\Documents\School Documents\ENGINEERING 2ND YEAR\PROGRAMMING\Python Codes\squaresum.py

squaresum.py*

```
1 from math import*
2 def squaresum(n):
3     sm = 0
4     for x in range (1,n+1):
5         sm = sm + (x**2)
6     return(sm)
7
8 print(sm)
9
```

Editor Window

IPython console

Console 1/A

```
In [10]:

In [10]: squaresum(5)
Out[10]: 55

In [11]: squaresum(10
    ...: )
Out[11]: 385

In [12]: squaresum(20)
Out[12]: 2870

In [13]:
```

Python Console

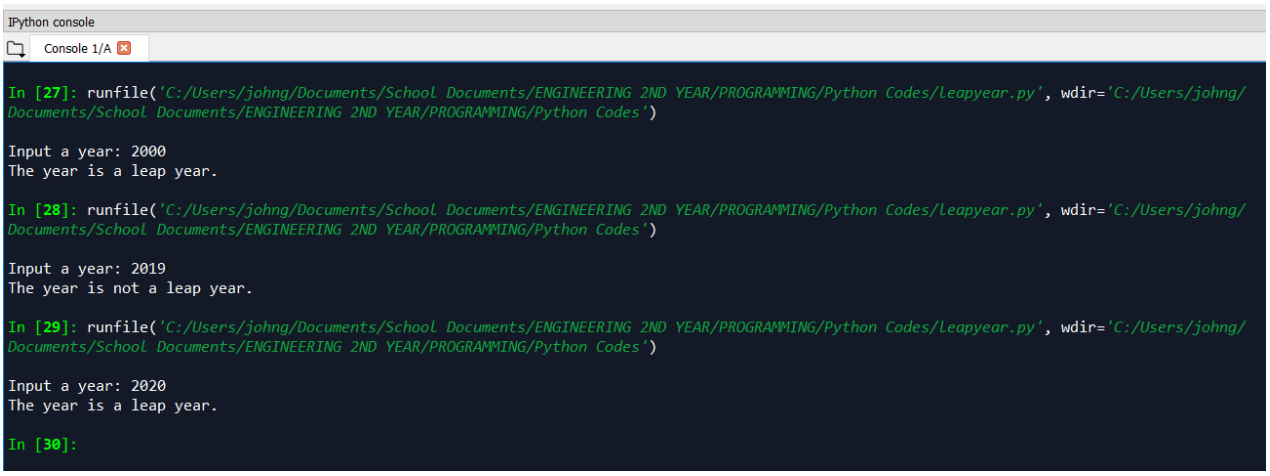
Problem 3: Leap Year

Editor - C:\Users\johng\Documents\School Documents\ENGINEERING 2ND YEAR\PROGRAMMING\Python Codes\leapyear.py

squaresum.py | letters.py | leapyear.py

```
1 from math import*
2 year= int(input("Input a year: "))
3 if (year%4) == 0:
4     print("The year is a leap year.")
5 else:
6     print("The year is not a leap year.")
7
```

Editor Window



Python Console