

Gabriel, John Michael C.

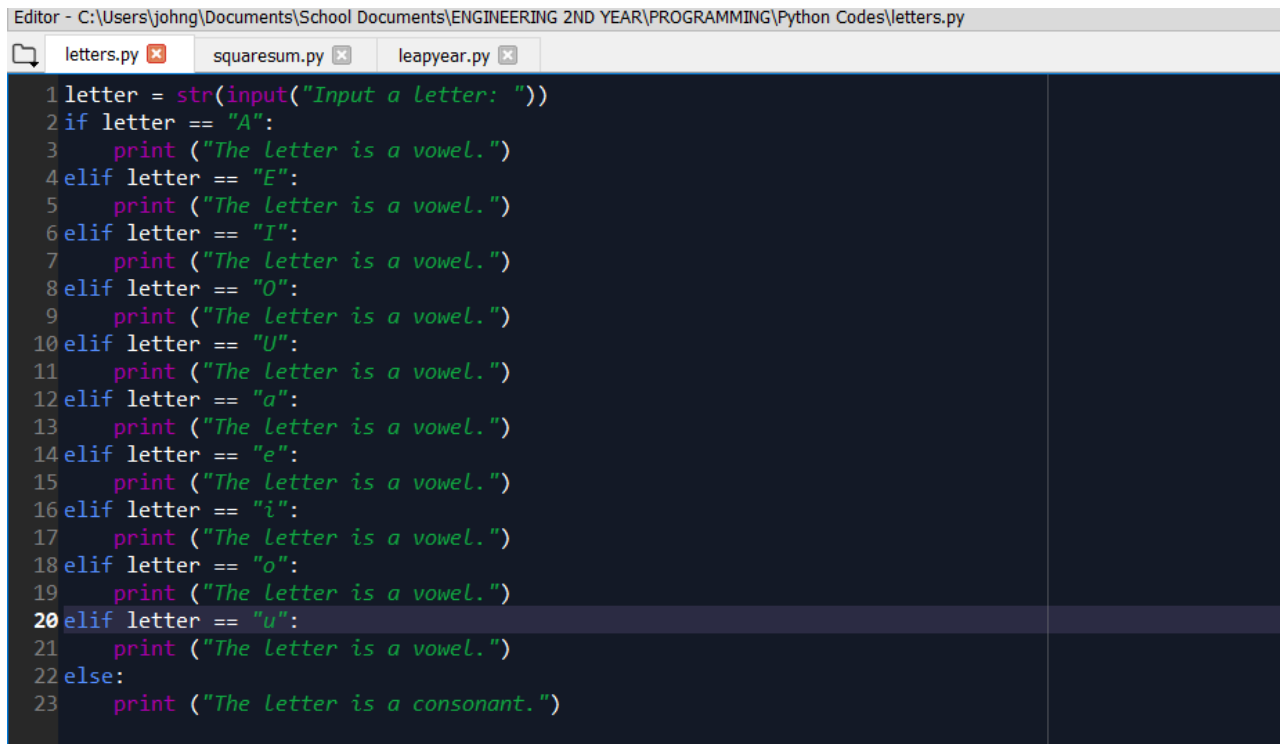
2ECE-E

Screenshots of Codes

Programming

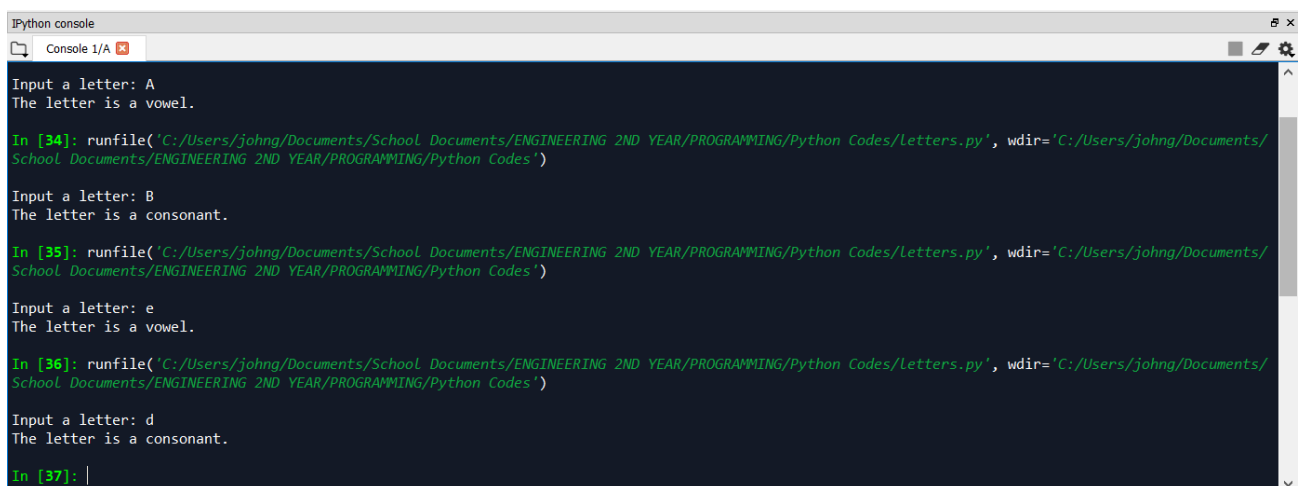
Extra Assignment

Problem 1: Vowel or Consonant



```
Editor - C:\Users\johng\Documents\School Documents\ENGINEERING 2ND YEAR\PROGRAMMING\Python Codes\letters.py
letters.py x squaresum.py x leapyear.py x
1 letter = str(input("Input a letter: "))
2 if letter == "A":
3     print ("The letter is a vowel.")
4 elif letter == "E":
5     print ("The letter is a vowel.")
6 elif letter == "I":
7     print ("The letter is a vowel.")
8 elif letter == "O":
9     print ("The letter is a vowel.")
10 elif letter == "U":
11     print ("The letter is a vowel.")
12 elif letter == "a":
13     print ("The letter is a vowel.")
14 elif letter == "e":
15     print ("The letter is a vowel.")
16 elif letter == "i":
17     print ("The letter is a vowel.")
18 elif letter == "o":
19     print ("The letter is a vowel.")
20 elif letter == "u":
21     print ("The letter is a vowel.")
22 else:
23     print ("The letter is a consonant.")
```

Editor Window



```
Python console
Console 1/A x
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* x
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 x
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 x letters.py x leapyear.py x
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

```
IPython console
Console 1/A x

In [27]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/Leapyear.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a year: 2000
The year is a leap year.

In [28]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/Leapyear.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a year: 2019
The year is not a leap year.

In [29]: runfile('C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes/Leapyear.py', wdir='C:/Users/johng/Documents/School Documents/ENGINEERING 2ND YEAR/PROGRAMMING/Python Codes')

Input a year: 2020
The year is a leap year.

In [30]:
```

Python Console