

# **INSTITUTO TECNOLÓGICO SUPERIOR DE CHICONTEPEC**



## **INGENIERIA EN SISTEMAS COMPUTACIONALES**

**NOMBRE DE LA MATERIA:**

Métodos Numéricos

**SEMESTRE:**

4º semestre

**NOMBRE DEL ALUMNO:**

Carlos Humberto Tejeda Osorio.

**NOMBRE DEL DOCENTE:**

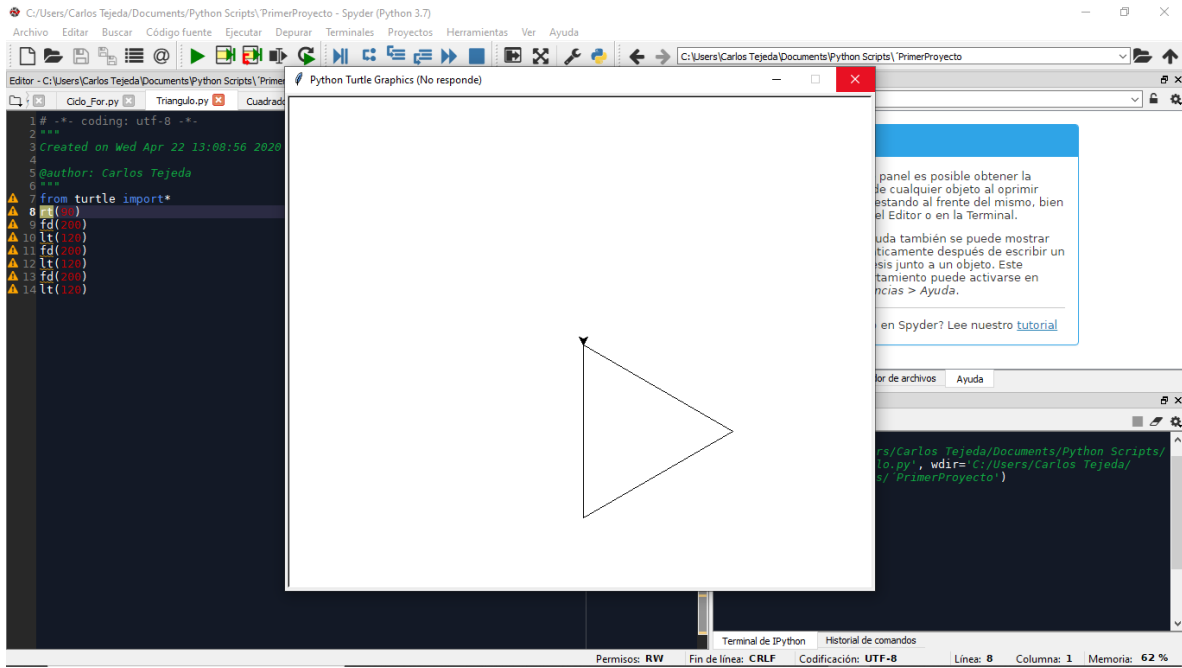
Ing. Efrén Flores Cruz

**TRABAJO:**

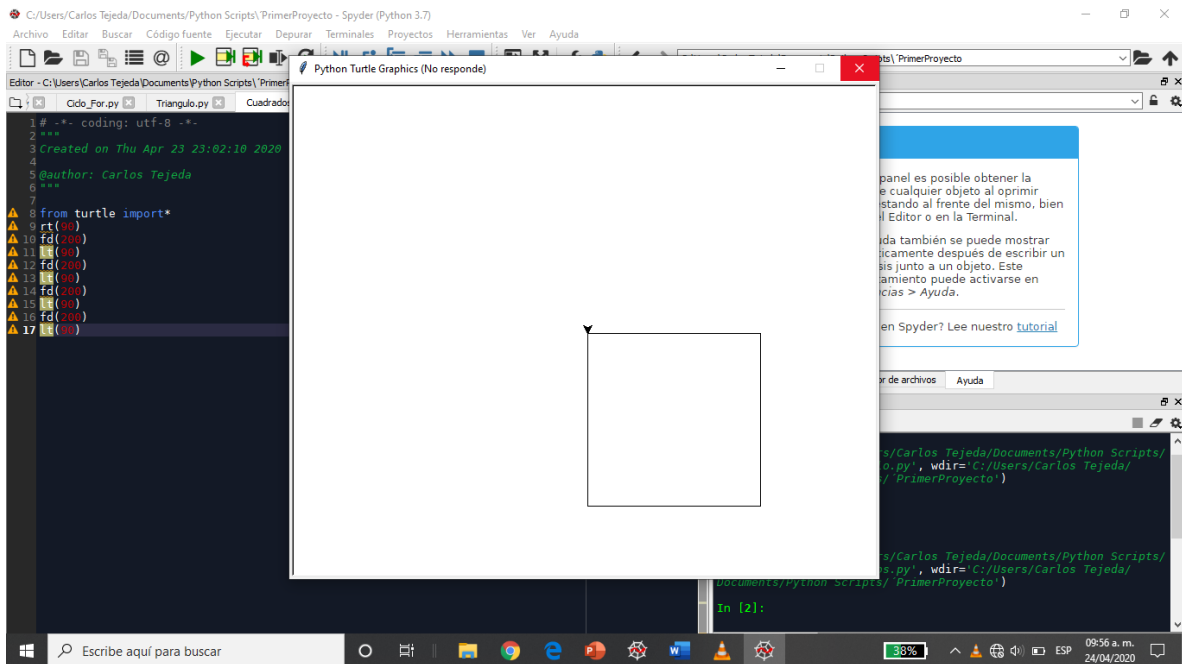
Diseño de Figuras en Python.

Chicontepepec, Ver 23 de abril de 2020

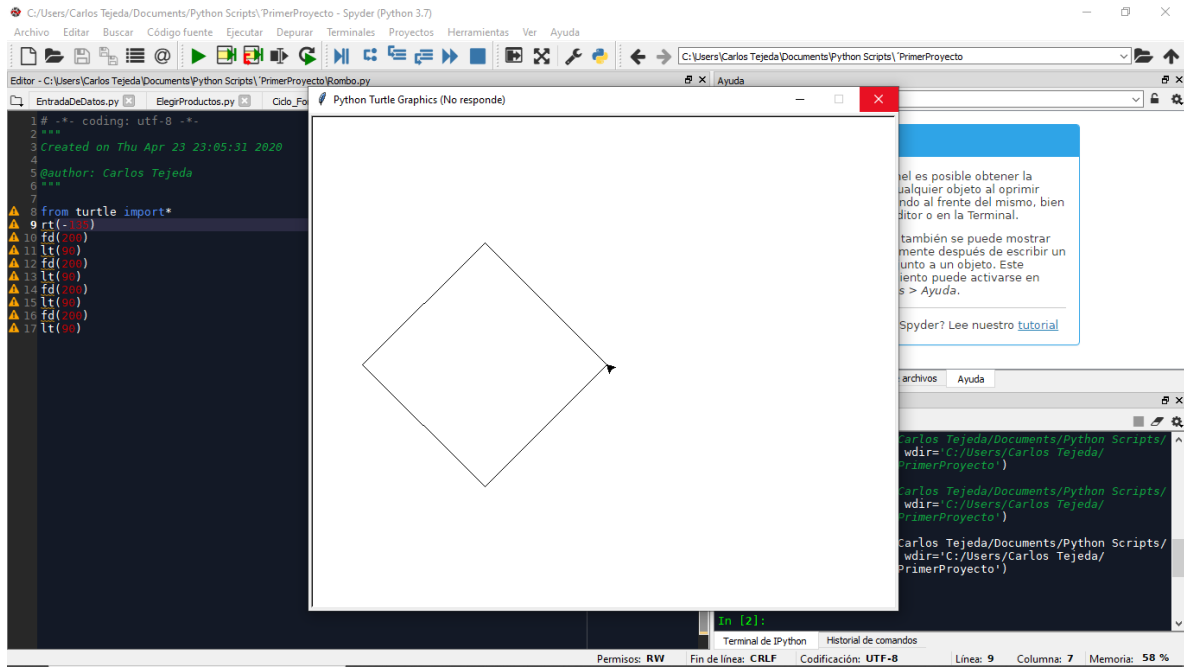
## 1. Figura Triangulo



## 2. Figura Cuadrado



### 3. Figura Rombo

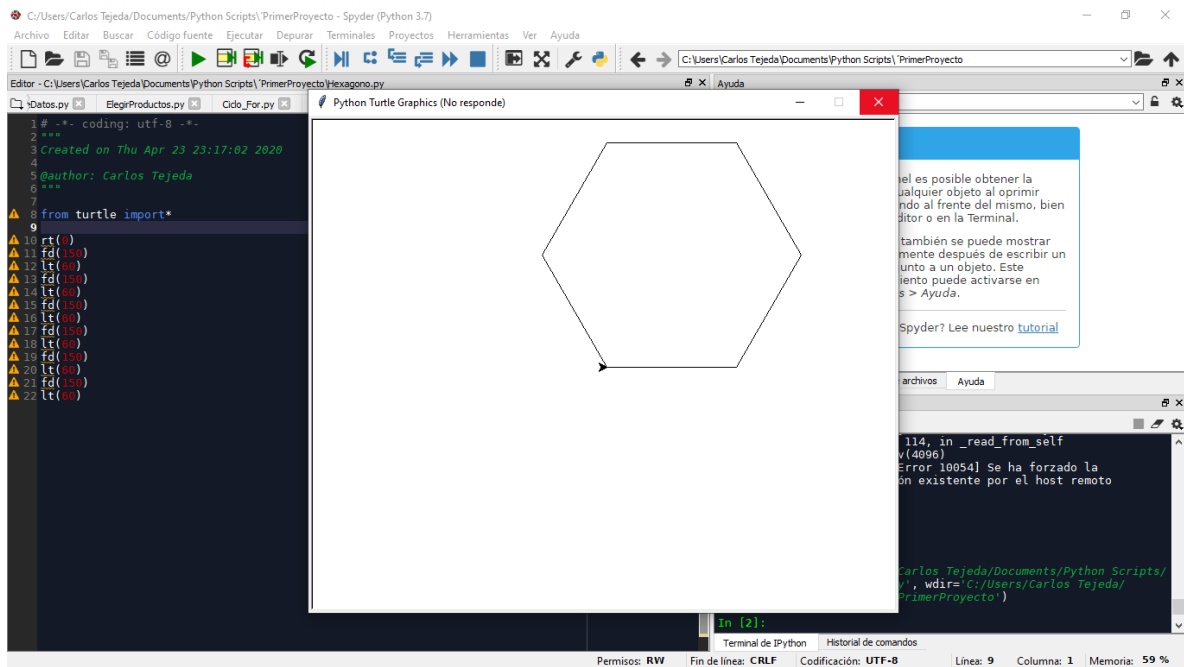


The screenshot shows the Spyder Python IDE interface. The editor window displays a Python script named 'Rombo.py' that uses the turtle module to draw a diamond. The code is as follows:

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Thu Apr 23 23:05:31 2020
4
5 @author: Carlos Tejeda
6 """
7
8 from turtle import *
9 rt(-90)
10 fd(200)
11 lt(90)
12 fd(200)
13 lt(90)
14 fd(200)
15 lt(90)
16 fd(200)
17 lt(90)
```

The Python Turtle Graphics window shows a diamond shape with a side length of 200 units. The status bar at the bottom indicates 'Permisos: RW', 'Fin de línea: CRLF', 'Codificación: UTF-8', 'Línea: 9', 'Columna: 7', and 'Memoria: 58 %'.

### 4. Figura Hexágono

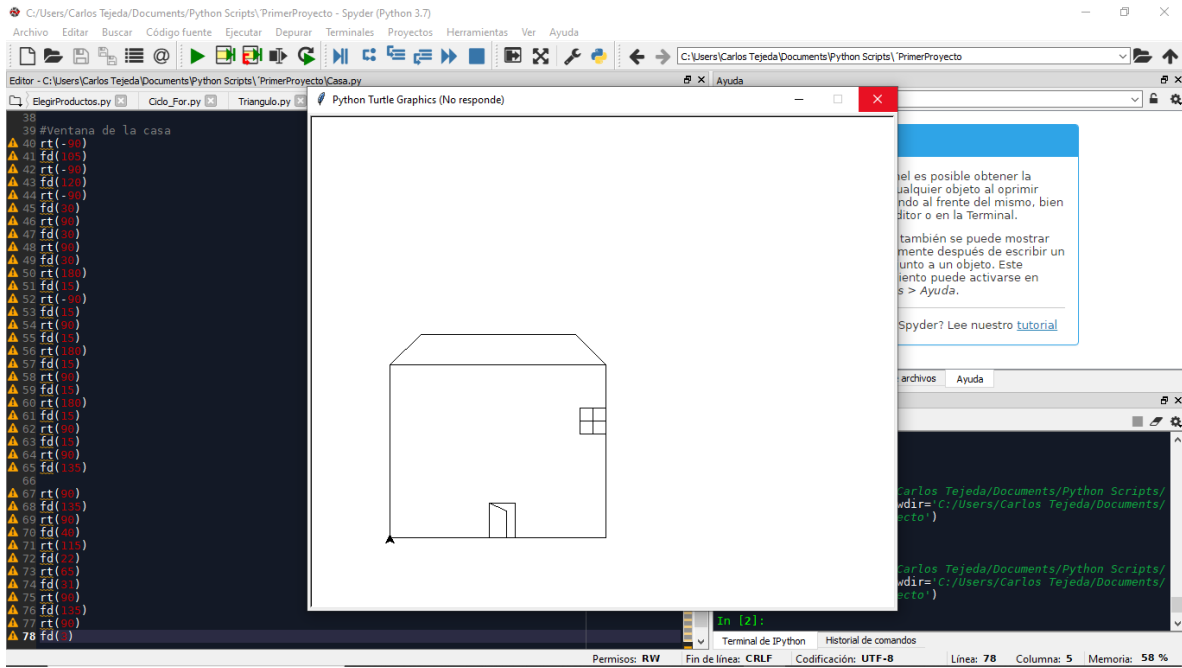


The screenshot shows the Spyder Python IDE interface. The editor window displays a Python script named 'Hexagono.py' that uses the turtle module to draw a hexagon. The code is as follows:

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Thu Apr 23 23:17:02 2020
4
5 @author: Carlos Tejeda
6 """
7
8 from turtle import *
9
10 rt(0)
11 fd(100)
12 lt(60)
13 fd(100)
14 lt(60)
15 fd(100)
16 lt(60)
17 fd(100)
18 lt(60)
19 fd(100)
20 lt(60)
21 fd(100)
22 lt(60)
```

The Python Turtle Graphics window shows a hexagon with a side length of 100 units. The status bar at the bottom indicates 'Permisos: RW', 'Fin de línea: CRLF', 'Codificación: UTF-8', 'Línea: 9', 'Columna: 1', and 'Memoria: 59 %'.

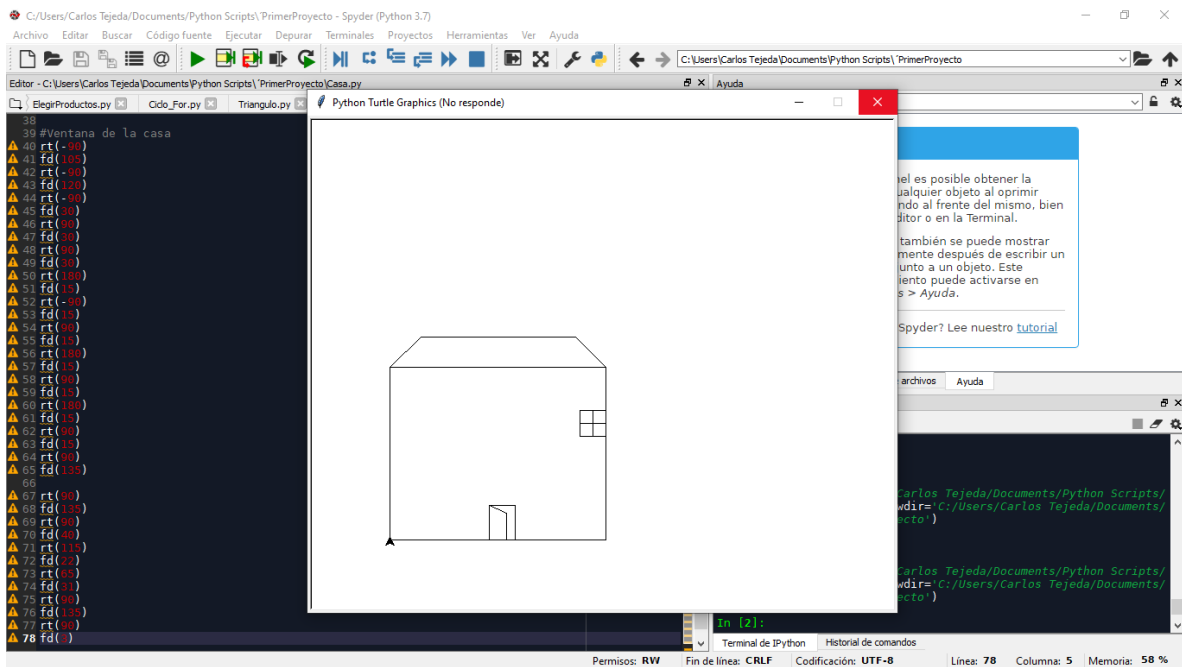
## 5. Figura Casa



```

38
39 #Ventana de la casa
40 rt(-90)
41 fd(100)
42 rt(-90)
43 fd(120)
44 rt(-90)
45 fd(80)
46 rt(90)
47 fd(80)
48 rt(90)
49 fd(80)
50 rt(180)
51 fd(15)
52 rt(-90)
53 fd(15)
54 rt(90)
55 fd(15)
56 rt(180)
57 fd(15)
58 rt(90)
59 fd(15)
60 rt(180)
61 fd(15)
62 rt(90)
63 fd(15)
64 rt(90)
65 fd(135)
66
67 rt(90)
68 fd(135)
69 rt(90)
70 fd(40)
71 rt(135)
72 fd(20)
73 rt(90)
74 fd(30)
75 rt(90)
76 fd(125)
77 rt(90)
78 fd(1)
  
```

## 6. Figura Estrella 4 picos.



```

38
39 #Ventana de la casa
40 rt(-90)
41 fd(100)
42 rt(-90)
43 fd(120)
44 rt(-90)
45 fd(80)
46 rt(90)
47 fd(80)
48 rt(90)
49 fd(80)
50 rt(180)
51 fd(15)
52 rt(-90)
53 fd(15)
54 rt(90)
55 fd(15)
56 rt(180)
57 fd(15)
58 rt(90)
59 fd(15)
60 rt(180)
61 fd(15)
62 rt(90)
63 fd(15)
64 rt(90)
65 fd(135)
66
67 rt(90)
68 fd(135)
69 rt(90)
70 fd(40)
71 rt(135)
72 fd(20)
73 rt(90)
74 fd(30)
75 rt(90)
76 fd(125)
77 rt(90)
78 fd(1)
  
```