

- ❖ **Taller#:** 10
- ❖ **Tema:** Manejo de creación de carpetas.
- ❖ **Desarrollo:** Se desarrolló el uso de la librería `os`, para manejar carpetas, crear, y verificar su existencia, además de usar `try - except` para controlar los errores posibles durante la ejecución.
- ❖ **Fecha:** 08/05/2024

Importamos `os`, y usamos `try except` para capturar errores en la ejecución.

The screenshot shows the Spyder Python IDE with a file named `DOUGLAS_DAVID_ARGUELLO_FREIRE_T110.py`. The code in the editor is as follows:

```

1  # -*- coding: utf-8 -*-
2
3  Created on Wed May 8 14:08:30 2024
4
5  @author: douglas
6
7
8  #Manejar la creación de carpetas/folder/directorios
9
10 import os
11
12 Ruta_Folder = "E://TallerFolder"
13
14 try:
15     os.mkdir(Ruta_Folder)
16     print("El folder ha sido creado exitosamente.")
17
18 except OSError

```

The IPython console on the right shows the following output:

```

Python 3.11.7 | packaged by Anaconda, Inc. | (main, Dec 15 2023, 18:05:47) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 8.20.0 -- An enhanced Interactive Python.

In [1]: runfile('E:/8vo Semestre/Agronomica/DOUGLAS_DAVID_ARGUELLO_FREIRE_T110.py', wdir='E:/8vo Semestre/Agronomica')
File <unknown>:18
      except OSError
SyntaxError: expected ':'

In [2]:

```

Completamos la codificación para la creación de la carpeta y ejecutamos.

The screenshot shows the same Spyder Python IDE with the completed script. The code in the editor is now:

```

1  # -*- coding: utf-8 -*-
2
3  Created on Wed May 8 14:08:30 2024
4
5  @author: douglas
6
7
8  #Manejar la creación de carpetas/folder/directorios
9
10 import os
11
12 Ruta_Folder = "E://TallerFolder"
13
14 try:
15     os.mkdir(Ruta_Folder)
16     print("El folder ha sido creado exitosamente.")
17
18 except OSError as Error:
19     print(f"Existe una novedad al crear el folder: {Error}")

```

The IPython console on the right shows the following output:

```

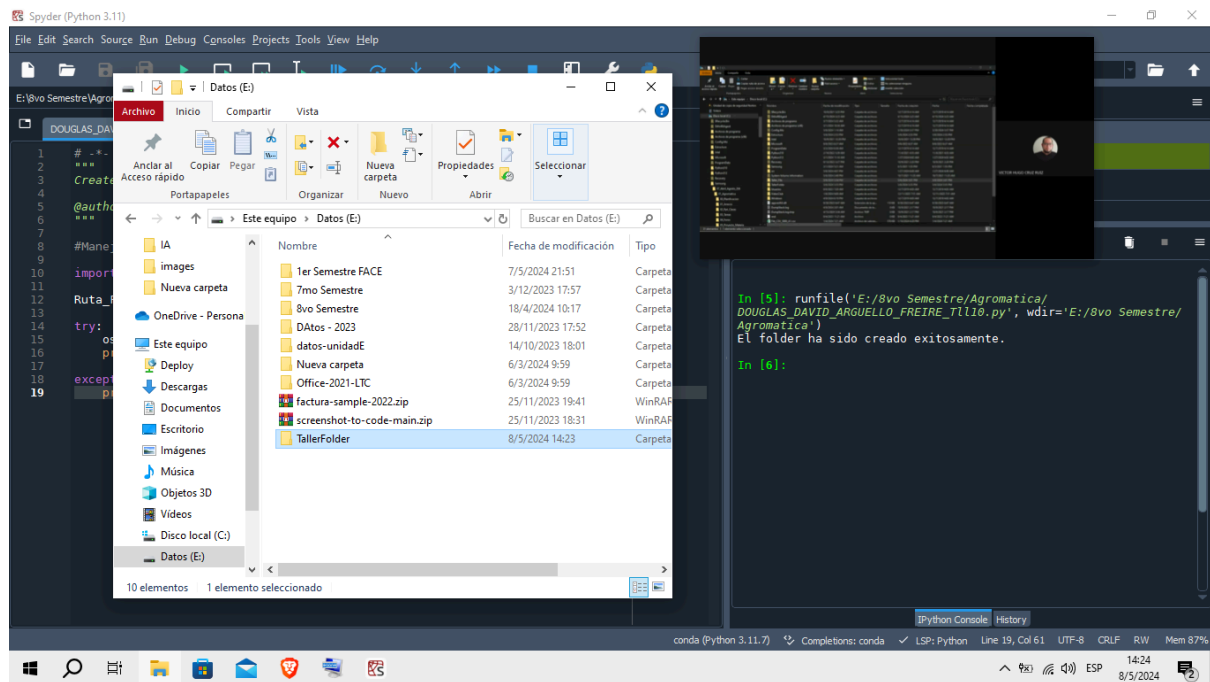
In [5]: runfile('E:/8vo Semestre/Agronomica/DOUGLAS_DAVID_ARGUELLO_FREIRE_T110.py', wdir='E:/8vo Semestre/Agronomica')
El folder ha sido creado exitosamente.

In [6]:

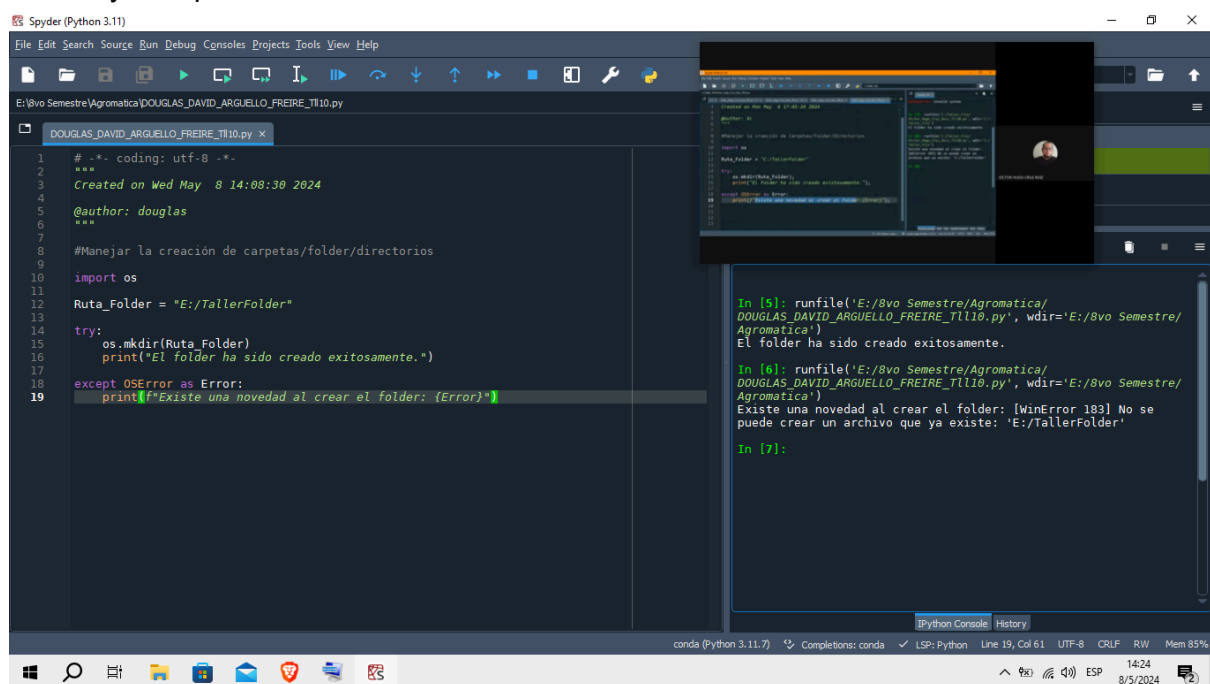
```

The Variable Explorer on the right shows a variable named `Ruta_Folder` of type `str` with the value `E://TallerFolder`.

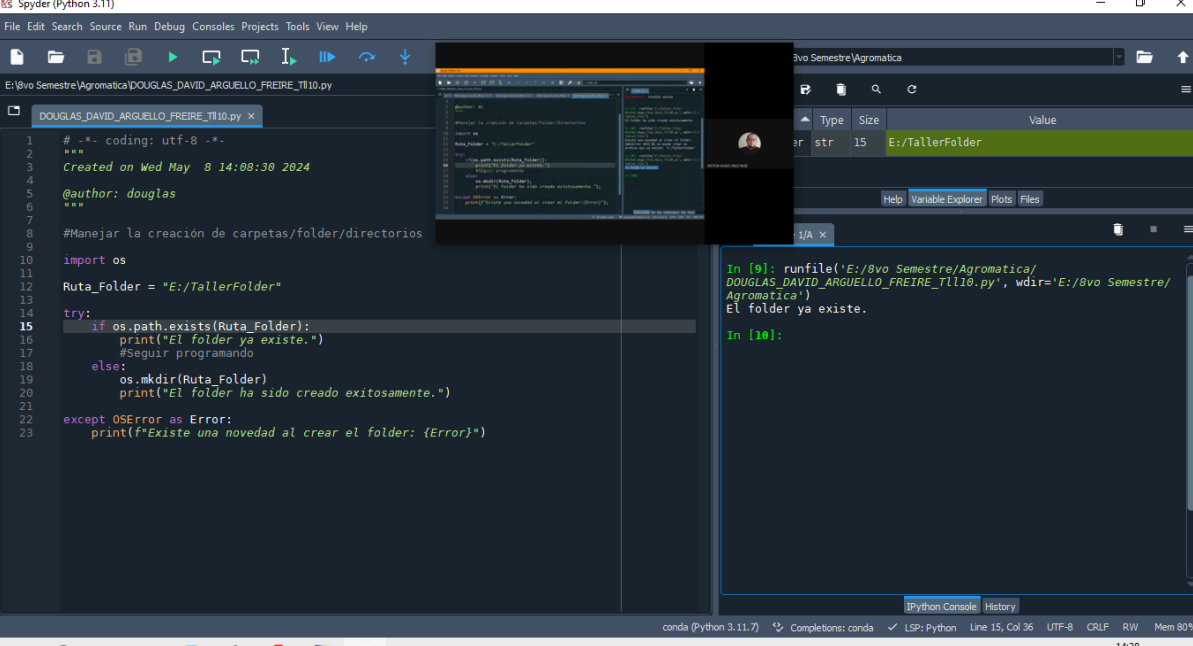
Vemos si de verdad se creó la carpeta en la ruta especificada.



Volvemos a crear la misma carpeta en la misma ruta para demostrar la captura de errores con el try except.



Aplicamos un if - else para validar si la carpeta existe o no.



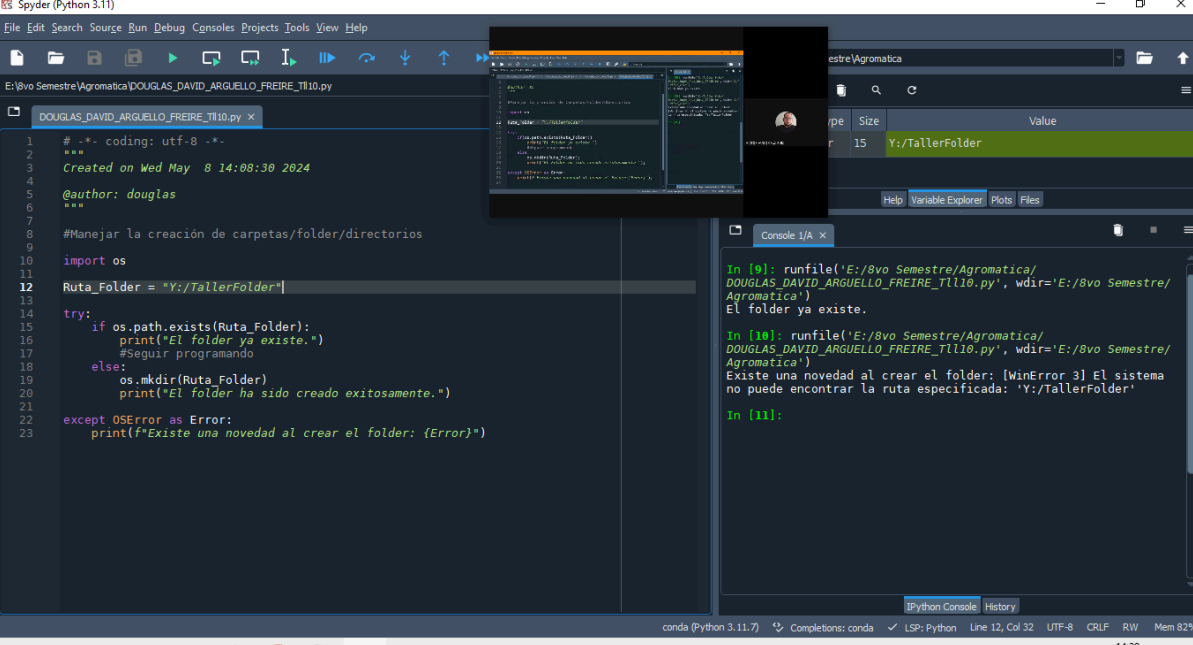
The screenshot shows the Spyder Python IDE interface. The main editor displays a Python script named `DOUGLAS_DAVID_ARGUELLO_FREIRE_TII10.py`. The script includes a header with encoding, creation date, and author information. It defines a variable `Ruta_Folder = "E:/TallerFolder"` and uses a `try-except` block to check if the folder exists. If it exists, it prints a message; otherwise, it creates the folder and prints a success message. The console on the right shows the output of running the script, confirming that the folder already exists.

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Wed May 8 14:08:30 2024
4 @author: douglas
5 """
6
7 #Manejar la creación de carpetas/folder/directorios
8
9 import os
10
11 Ruta_Folder = "E:/TallerFolder"
12
13 try:
14     if os.path.exists(Ruta_Folder):
15         print("El folder ya existe.")
16     #Seguir programando
17 else:
18     os.mkdir(Ruta_Folder)
19     print("El folder ha sido creado exitosamente.")
20
21 except OSError as Error:
22     print(f"Existe una novedad al crear el folder: {Error}")
23
```

Console output:

```
In [9]: runfile('E:/8vo Semestre/Agromatica/DOUGLAS_DAVID_ARGUELLO_FREIRE_TII10.py', wdir='E:/8vo Semestre/Agromatica')
El folder ya existe.
```

Colocamos una unidad de almacenamiento inexistente para demostrar la captura y manejo de errores.



The screenshot shows the Spyder Python IDE interface. The main editor displays the same Python script as before, but the `Ruta_Folder` variable is now set to `"Y:/TallerFolder"`. The console on the right shows the output of running the script, which now raises a `WinError 3` because the drive `Y:` does not exist.

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Wed May 8 14:08:30 2024
4 @author: douglas
5 """
6
7 #Manejar la creación de carpetas/folder/directorios
8
9 import os
10
11 Ruta_Folder = "Y:/TallerFolder"
12
13 try:
14     if os.path.exists(Ruta_Folder):
15         print("El folder ya existe.")
16     #Seguir programando
17 else:
18     os.mkdir(Ruta_Folder)
19     print("El folder ha sido creado exitosamente.")
20
21 except OSError as Error:
22     print(f"Existe una novedad al crear el folder: {Error}")
23
```

Console output:

```
In [9]: runfile('E:/8vo Semestre/Agromatica/DOUGLAS_DAVID_ARGUELLO_FREIRE_TII10.py', wdir='E:/8vo Semestre/Agromatica')
El folder ya existe.

In [10]: runfile('E:/8vo Semestre/Agromatica/DOUGLAS_DAVID_ARGUELLO_FREIRE_TII10.py', wdir='E:/8vo Semestre/Agromatica')
Existe una novedad al crear el folder: [WinError 3] El sistema no puede encontrar la ruta especificada: 'Y:/TallerFolder'

In [11]:
```