

Al abrir un archivo inexistente

```
+ Code + Markdown | ▶ Run All | ☰ Clear Outputs of All Cells | ↺ Restart | ☐ Interrupt | 📄 Variables | ... | env (Python 3.9.9)
```

```
#Abrir un archivo inexistente
open("/path/to/mars.jpg")
```

[3] 0.1s Python

```
...
-----
FileNotFoundError                                Traceback (most recent call last)
c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\manejo_erroses.ipynb Cell 1' in <module>
      1 #Abrir un archivo inexistente
----> 2 open("/path/to/mars.jpg")

FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
```

Función main que abre un archivo inexistente

```
Modulo_10 > open.py > ...
1 def main():
2     open("/path/to/mars.jpg")
3
4
5 if __name__ == '__main__':
6     main()
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER: VARIABLES Python

```
ts/python.exe c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/Modulo_10/open.py
Traceback (most recent call last):
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\open.py", line 6, in <module>
    main()
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>
```

Utilizando try y except

```
17 try:
18     open('config.txt')
19 except FileNotFoundError:
20     print("Couldn't find the config.txt file")
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER: VARIABLES Python + - ☐ ☒ ^ x

```
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython> & c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/env/Scripts/python.exe c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/Modulo_10/open.py
Couldn't find the config.txt file
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>
```

Archivo o directorio no existente

```

12 def main():
13     try:
14         configuration = open('config.txt')
15     except FileNotFoundError:
16         print("Couldn't find the config.txt file!")
17
18
19 if __name__ == '__main__':
20     main()

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER: VARIABLES

powershell + - □ ✕

```

PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython> py config.py
C:\Users\STYG01\AppData\Local\Programs\Python\Python39\python.exe: can't open file 'C:\Users\STYG01\Desktop\microsoft\CursoIntroPython\config.py': [Errno 2] No such file or directory
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>

```

Usando BlockingIOError y TimeoutError

```

13 def main():
14     try:
15         open("mars.jpg")
16     except FileNotFoundError as err:
17         print("got a problem trying to read the file:", err)
18
19 if __name__ == '__main__':
20     main()

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER: VARIABLES

+ - ^ ✕

```

.py
got a problem trying to read the file: [Errno 2] No such file or directory: 'mars.jpg'
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>

```

powershell
Python

Generación de excepciones

```

12
13 def water_left(astronauts, water_left, days_left):
14     daily_usage = astronauts * 11
15     total_usage = daily_usage * days_left
16     total_water_left = water_left - total_usage
17     return f"Total water left after {days_left} days is: {total_water_left} liters"
18
19
20
21 print(water_left(5, 100, 2))

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER: VARIABLES

```

.py
Total water left after 2 days is: -10 liters
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>

```

TypeError

```
8 def water_left(astronauts, water_left, days_left):
9     daily_usage = astronauts * 11
10    total_usage = daily_usage * days_left
11    total_water_left = water_left - total_usage
12    if total_water_left < 0:
13        raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
14    return f"Total water left after {days_left} days is: {total_water_left} liters"
15
16
17 print(water_left(5, 100, 2))
```

PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE JUPYTER: VARIABLES

```
.py
Python\env/Scripts/python.exe c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/Modulo_10/config
.py
Traceback (most recent call last):
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\config.py", line 22, in <modul
e>
    print(water_left(5, 100, 2))
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\config.py", line 18, in water_
left
    raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} da
ys!")
RuntimeError: There is not enough water for 5 astronauts after 2 days!
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>
```

Mejorando error TypeError

```
14 # TypeError will be raised only if it isn't the right type
15 # Raise the same exception but with a better error message
16 raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
17 daily_usage = astronauts * 11
18 total_usage = daily_usage * days_left
19 total_water_left = water_left - total_usage
20 if total_water_left < 0:
21     raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
22 return f"Total water left after {days_left} days is: {total_water_left} liters"
23
24 print(water_left(5, 100, 2))
```

PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE JUPYTER: VARIABLES

```
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython> & c:/Users/STYG01/Desktop/microsoft/CursoIntro
Python\env/Scripts/python.exe c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/Modulo_10/config
.py
Traceback (most recent call last):
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\config.py", line 24, in <modul
e>
    print(water_left(5, 100, 2))
  File "c:\Users\STYG01\Desktop\microsoft\CursoIntroPython\Modulo_10\config.py", line 21, in water_
left
    raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} da
ys!")
RuntimeError: There is not enough water for 5 astronauts after 2 days!
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython>
```