

```
PROBLEMAS  SALIDA  CONSOLA DE DEPURACIÓN  TERMINAL  JUPYTER

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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS D:\manue\Escritorio\CursoIntroPython> python3
PS D:\manue\Escritorio\CursoIntroPython> python
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> open("/path/to/mars.jpg")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
>>> 
```

Lfn. 1

Visual Studio Code interface showing a file explorer with several .ipynb files and a code editor with the following Python code:

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

The terminal output shows the execution of the script, resulting in a FileNotFoundError:

```
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PS D:\manue\Escritorio\CursoIntroPython> python open.py
Traceback (most recent call last):
  File "D:\manue\Escritorio\CursoIntroPython\open.py", line 5, in <module>
    main()
  File "D:\manue\Escritorio\CursoIntroPython\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS D:\manue\Escritorio\CursoIntroPython> 
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```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> open("/path/to/mars.jpg")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
>>> try:
...     open('config.txt')
... except FileNotFoundError:
...     print("Couldn't find the config.txt file!")
...
Couldn't find the config.txt file!
>>> █
```

Módulo5Katas.ipynb

Módulo6Katas.ipynb

Módulo7Katas.ipynb

Módulo8Kata

Config.py > ...

```
1  def main():
2      try:
3          configuration = open('config.txt')
4      except FileNotFoundError:
5          print("Couldn't find the config.txt file!")
6
7
8  if __name__ == '__main__':
9      main()
```

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Windows PowerShell

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PS D:\manue\Escritorio\CursoIntroPython> python Config.py

Couldn't find the config.txt file!

PS D:\manue\Escritorio\CursoIntroPython> █

Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

```
PS D:\manue\Escritorio\CursoIntroPython> python Config.py
```

```
Couldn't find the config.txt file!
```

```
PS D:\manue\Escritorio\CursoIntroPython> python Config.py
```

```
Traceback (most recent call last):
```

```
  File "D:\manue\Escritorio\CursoIntroPython\Config.py", line 9, in <module>
    main()
```

```
  File "D:\manue\Escritorio\CursoIntroPython\Config.py", line 3, in main
    configuration = open('config.txt')
```

```
PermissionError: [Errno 13] Permission denied: 'config.txt'
```

```
PS D:\manue\Escritorio\CursoIntroPython> █
```

Módulo5Katas.ipynb

Módulo6Katas.ipynb

Módulo7Katas.ipynb

Módulo8Katas.ipynb

Config.py > main

```
1 def main():
2     try:
3         configuration = open('config.txt')
4     except Exception:
5         print("Couldn't find the config.txt file!")
6
7
8 if __name__ == '__main__':
9     main()
```

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PS D:\manue\Escritorio\CursoIntroPython> python Config.py

Couldn't find the config.txt file!

PS D:\manue\Escritorio\CursoIntroPython> █

```
Archivo Editar Selección Ver Ir Ejecutar Terminal Ayuda
Config.py - CursoIntroPython - Visual Studio Code

EXPLORADOR
CURSOINTROPYTHON
  config.txt
  Módulo02Katas
  Config.py
  Módulo 8 - Administrar datos con di...
  Módulo 9 - Funciones.md
  Módulo 10 - Manejo de errores.md
  Módulo1Katas.ipynb
  Módulo3Katas.ipynb
  Módulo4Katas.ipynb
  Módulo5Katas.ipynb
  Módulo6Katas.ipynb
  Módulo7Katas.ipynb
  Módulo8Katas.ipynb
  Módulo9Katas.ipynb
  open.py
  Config.py

Config.py > main
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6     except PermissionError:
7         print("Found config.txt but it is a directory, couldn't read it")
8
9 if __name__ == '__main__':
10     main()

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PS D:\manue\Escritorio\CursoIntroPython> python Config.py
Couldn't find the config.txt file!
PS D:\manue\Escritorio\CursoIntroPython> python Config.py
Found config.txt but it is a directory, couldn't read it
PS D:\manue\Escritorio\CursoIntroPython> 
```

```
Archivo Editar Selección Ver Ir Ejecutar Terminal Ayuda
Config.py - CursoIntroPython - Visual Studio Code

EXPLORADOR
CURSOINTROPYTHON
  Módulo02Katas
  Config.py
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  Módulo7Katas.ipynb
  Módulo8Katas.ipynb
  Módulo9Katas.ipynb
  open.py
  Config.py

Config.py > main
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6     except PermissionError:
7         print("Found config.txt but it is a directory, couldn't read it")
8
9 if __name__ == '__main__':
10     main()

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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS D:\manue\Escritorio\CursoIntroPython> python Config.py
Couldn't find the config.txt file!
PS D:\manue\Escritorio\CursoIntroPython> python Config.py
Found config.txt but it is a directory, couldn't read it
PS D:\manue\Escritorio\CursoIntroPython> python Config.py
Couldn't find the config.txt file!
PS D:\manue\Escritorio\CursoIntroPython> 
```

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

```
PS D:\manue\Escritorio\CursoIntroPython> python
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> try:
...     open("mars.jpg")
... except FileNotFoundError as err:
...     print("got a problem trying to read the file:", err)
...
got a problem trying to read the file: [Errno 2] No such file or directory: 'mars.jpg'
>>> █
```

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```
PS D:\manue\Escritorio\CursoIntroPython> python
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> try:
...     open("config.txt")
... except OSError as err:
...     if err.errno == 2:
...         print("Couldn't find the config.txt file!")
...     elif err.errno == 13:
...         print("Found config.txt but couldn't read it")
...
Couldn't find the config.txt file!
>>> █
```

cutar Terminal Ayuda water.py - CursoIntroPython - Visual Studio Code

ynb Módulo6Katas.ipynb Módulo7Katas.ipynb Módulo8Katas.ipynb Módulo9Katas.ipynb

water.py > ...

```
1 def water_left(astronauts, water_left, days_left):
2     daily_usage = astronauts * 11
3     total_usage = daily_usage * days_left
4     total_water_left = water_left - total_usage
5     return f"Total water left after {days_left} days is: {total_water_left} liters"
6 print(water_left(5, 100, 2))
7
8
```

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PS D:\manue\Escritorio\CursoIntroPython> python water.py
PS D:\manue\Escritorio\CursoIntroPython> python water.py
Total water left after 2 days is: -10 liters
PS D:\manue\Escritorio\CursoIntroPython> █

Ejecutar Terminal Ayuda water.py - CursoIntroPython - Visual Studio Code

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water.py > water_left

1 def water_left(astronauts, water_left, days_left):

2 daily_usage = astronauts * 11

3 total_usage = daily_usage * days_left

4 total_water_left = water_left - total_usage

5 if total_water_left < 0:

6 raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")

7 return f"Total water left after {days_left} days is: {total_water_left} liters"

8 print(water_left(5, 100, 2))

9

10

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PS D:\manue\Escritorio\CursoIntroPython> python water.py

PS D:\manue\Escritorio\CursoIntroPython> python water.py

Total water left after 2 days is: -10 liters

PS D:\manue\Escritorio\CursoIntroPython> python water.py

Traceback (most recent call last):

File "D:\manue\Escritorio\CursoIntroPython\water.py", line 8, in <module>

print(water_left(5, 100, 2))

File "D:\manue\Escritorio\CursoIntroPython\water.py", line 6, in water_left

raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")

RuntimeError: There is not enough water for 5 astronauts after 2 days!

PS D:\manue\Escritorio\CursoIntroPython> █

File Explorer Terminal Ayuda water.py - CursoIntroPython - Visual Studio Code

ynb Módulo6Katas.ipynb Módulo7Katas.ipynb Módulo8Katas.ipynb Módulo9Katas.ipynb open.py

water.py > ...
1 def water_left(astronauts, water_left, days_left):
2 daily_usage = astronauts * 11
3 total_usage = daily_usage * days_left
4 total_water_left = water_left - total_usage
5 if total_water_left < 0:
6 raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
7 return f"Total water left after {days_left} days is: {total_water_left} liters"
8 def alert_navigation_system(err_type):
9 print('Run time error:',err_type)
10 try:
11 water_left(5, 100, 2)
12 except RuntimeError as err:
13 alert_navigation_system(err)
14
15

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PS D:\manue\Escritorio\CursoIntroPython> python water.py
Run time error: There is not enough water for 5 astronauts after 2 days!
PS D:\manue\Escritorio\CursoIntroPython>

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nb  Módulo6Katas.ipynb  Módulo7Katas.ipynb  Módulo8Katas.ipynb  Módulo9Katas.ipynb  open.py

water.py > ...
1  def water_left(astronauts, water_left, days_left):
2      daily_usage = astronauts * 11
3      total_usage = daily_usage * days_left
4      total_water_left = water_left - total_usage
5      if total_water_left < 0:
6          raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
7      return f"Total water left after {days_left} days is: {total_water_left} liters"
8  def alert_navigation_system(err_type):
9      print('Run time error:',err_type)
10 try:
11     water_left("3", "200", None)
12 except RuntimeError as err:
13     alert_navigation_system(err)
14
15

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PS D:\manue\Escritorio\CursoIntroPython> python water.py
Traceback (most recent call last):
  File "D:\manue\Escritorio\CursoIntroPython\water.py", line 11, in <module>
    water_left("3", "200", None)
  File "D:\manue\Escritorio\CursoIntroPython\water.py", line 3, in water_left
    total_usage = daily_usage * days_left
TypeError: can't multiply sequence by non-int of type 'NoneType'
PS D:\manue\Escritorio\CursoIntroPython> 
```

```
Terminal  Ayuda  water.py - CursoIntroPython - Visual Studio Code

b  Módulo6Katas.ipynb  Módulo7Katas.ipynb  Módulo8Katas.ipynb  Módulo9Katas.ipynb  open.py  +

water.py > ...
1  def water_left(astronauts, water_left, days_left):
2      for argument in [astronauts, water_left, days_left]:
3          try:
4              # If argument is an int, the following operation will work
5              argument / 10
6          except TypeError:
7              # TypeError will be raised only if it isn't the right type
8              # Raise the same exception but with a better error message
9              raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
10     daily_usage = astronauts * 11
11     total_usage = daily_usage * days_left
12     total_water_left = water_left - total_usage
13     if total_water_left < 0:
14         raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
15     return f"Total water left after {days_left} days is: {total_water_left} liters"
16 water_left("3", "200", None)
17
18

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PS D:\manue\Escritorio\CursoIntroPython> python water.py
Traceback (most recent call last):
  File "D:\manue\Escritorio\CursoIntroPython\water.py", line 5, in water_left
    argument / 10
TypeError: unsupported operand type(s) for /: 'str' and 'int'

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "D:\manue\Escritorio\CursoIntroPython\water.py", line 16, in <module>
    water_left("3", "200", None)
  File "D:\manue\Escritorio\CursoIntroPython\water.py", line 9, in water_left
    raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
TypeError: All arguments must be of type int, but received: '3'
PS D:\manue\Escritorio\CursoIntroPython> 
```