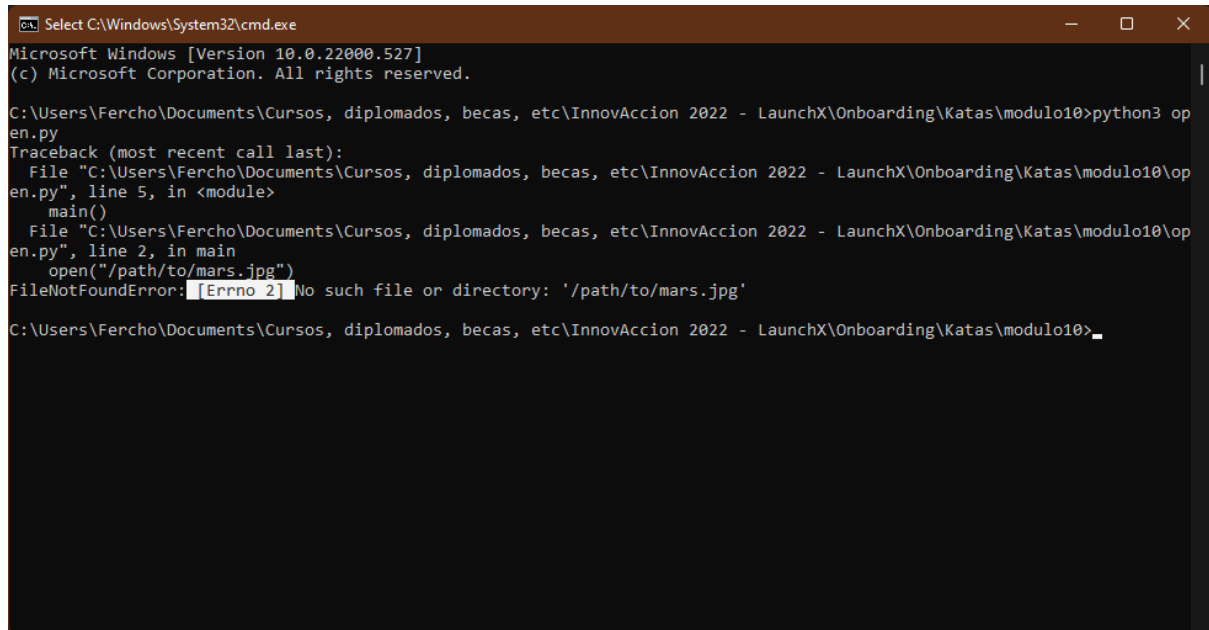


# Kata No. 10

Curso LaunchX, 2022.

Alumno: Fernando Arceo Olivares

## Tracebacks

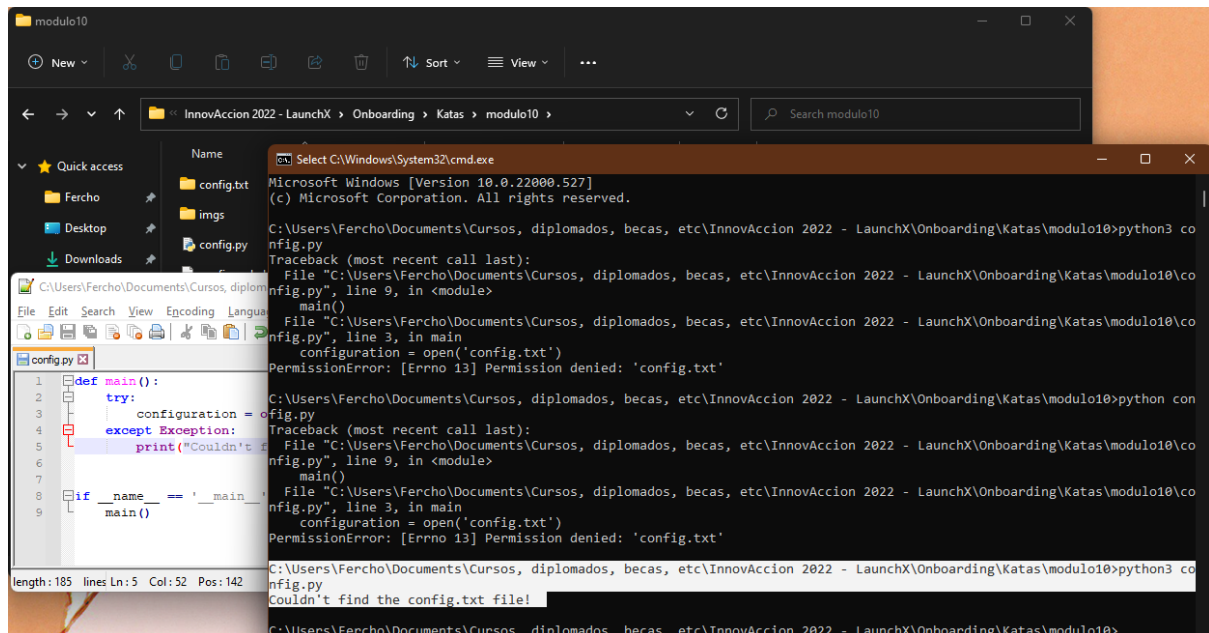


```
Select C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.527]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 open.py
Traceback (most recent call last):
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\open.py", line 5, in <module>
    main()
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'

C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>
```

## Detectar todas las excepciones posibles



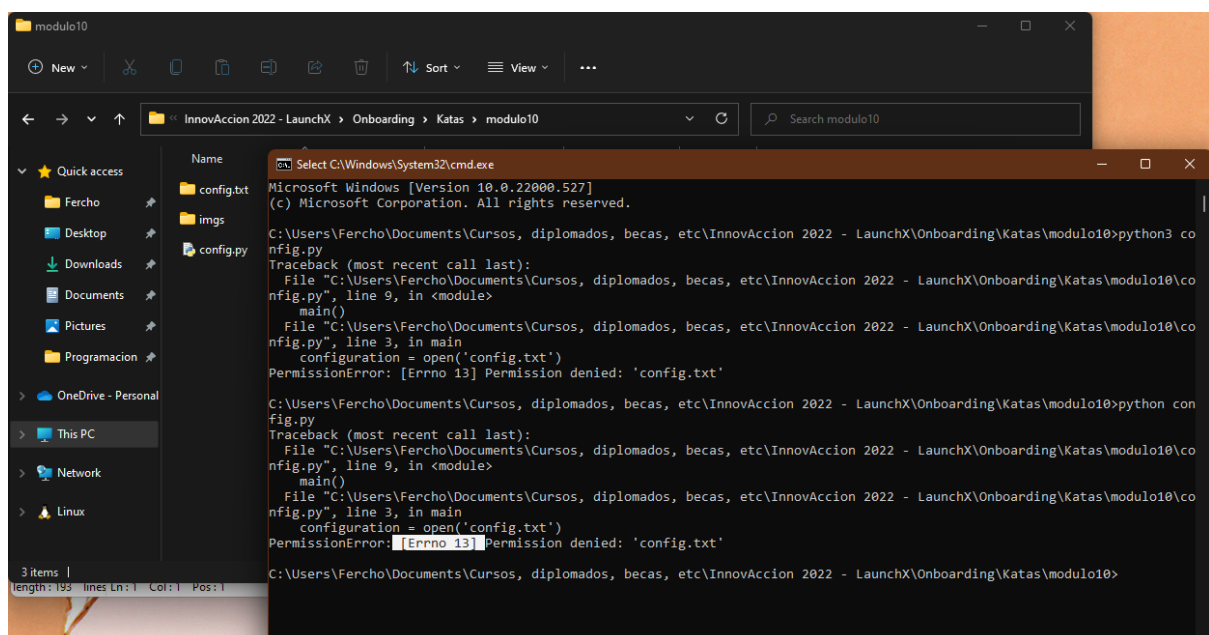
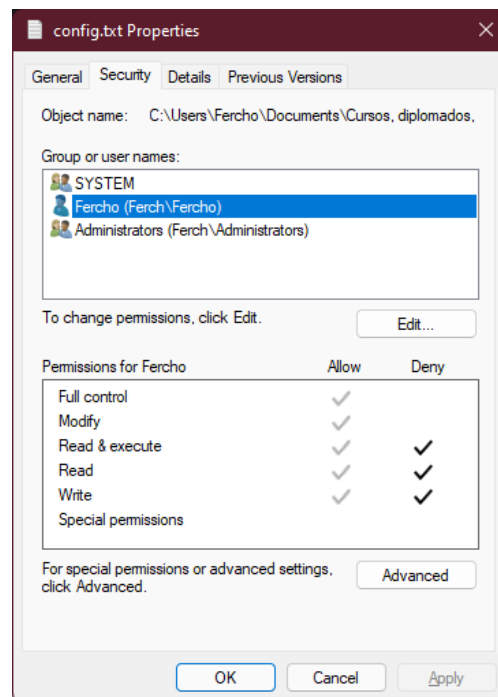
```
modulo10
InnovAccion 2022 - LaunchX > Onboarding > Katas > modulo10 >
Search modulo10
Name
config.txt
imgs
config.py
C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 config.py
Traceback (most recent call last):
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\config.py", line 9, in <module>
    main()
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\config.py", line 3, in main
    configuration = open('config.txt')
PermissionError: [Errno 13] Permission denied: 'config.txt'

C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 config.py
Traceback (most recent call last):
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\config.py", line 9, in <module>
    main()
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\config.py", line 3, in main
    configuration = open('config.txt')
PermissionError: [Errno 13] Permission denied: 'config.txt'

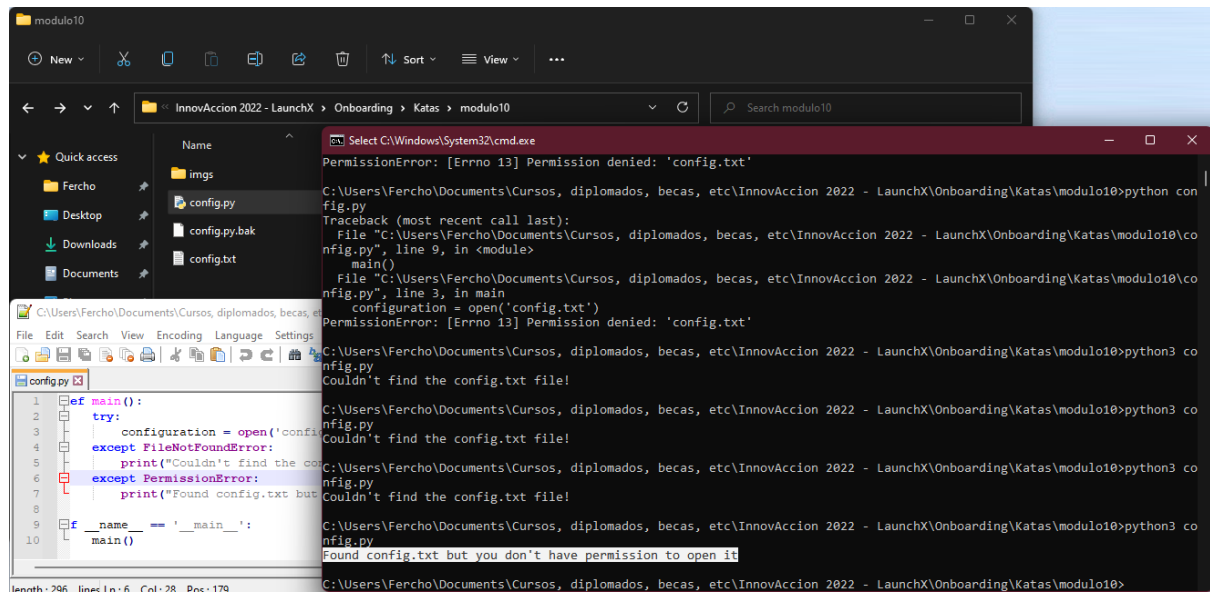
C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 config.py
Couldn't find the config.txt file!

C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>
```

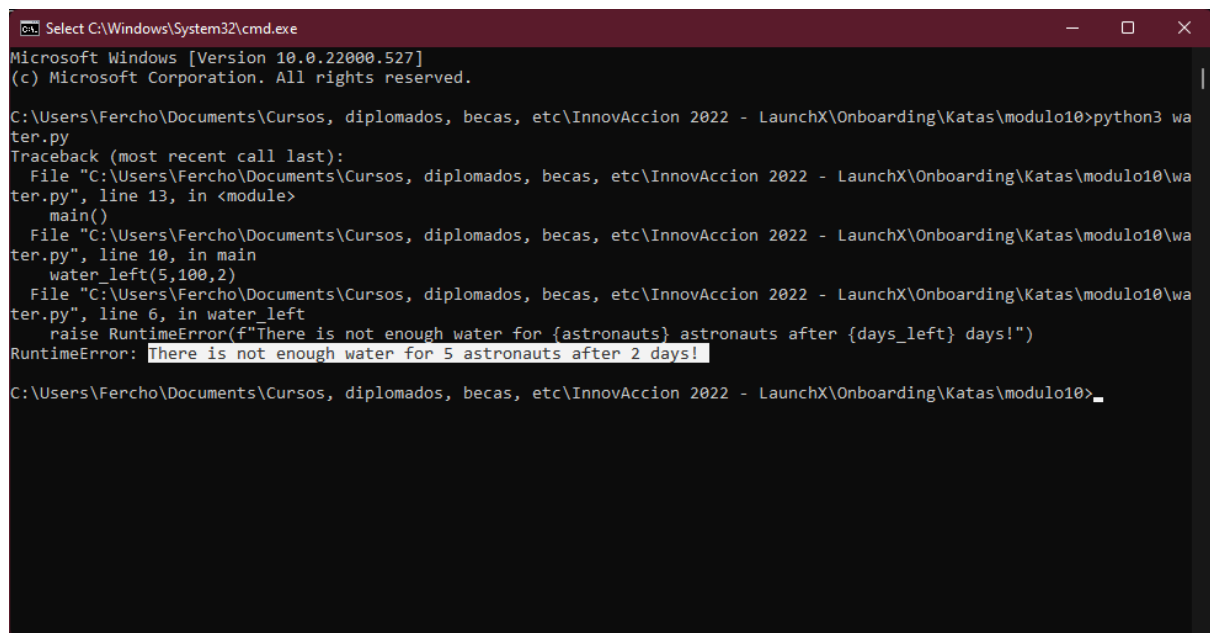
## Excepción primaria de FileNotFoundError y PermissionError



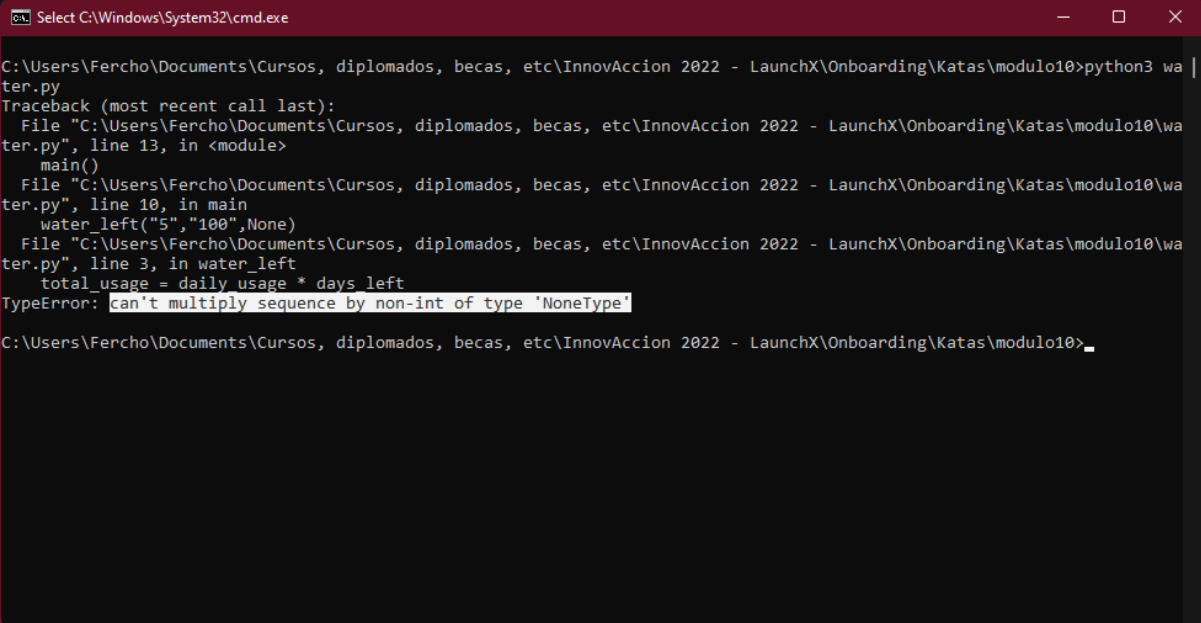
## Usando la excepción [PermissionError]



## Generación de excepciones

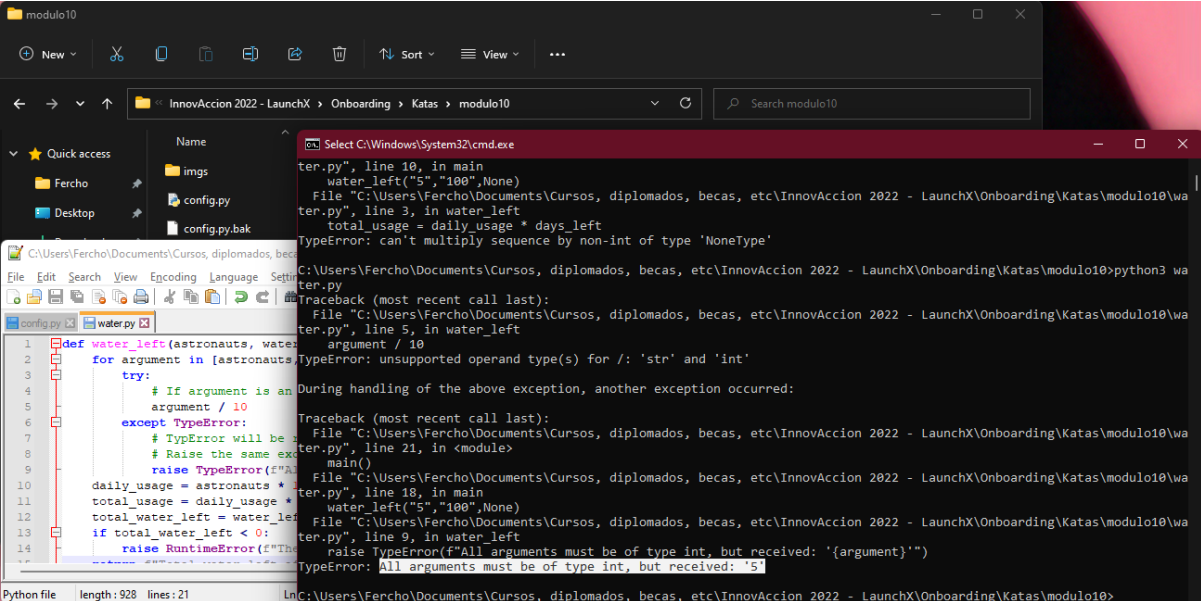


## Evitando el paso de tipos no admitidos



```
C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 water.py
Traceback (most recent call last):
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\water.py", line 13, in <module>
    main()
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\water.py", line 10, in main
    water_left("5", "100", None)
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\water.py", line 3, in water_left
    total_usage = daily_usage * days_left
TypeError: can't multiply sequence by non-int of type 'NoneType'
```

## Agregando una descripción para el error TypeError



```
def water_left(astronauts, water_left, day_counter=0):
    for argument in [astronauts, water_left]:
        try:
            # If argument is an int, it's a number
            argument / 10
        except TypeError:
            # TypeError will be raised if the argument is not an int
            # Raise the same exception with a custom message
            raise TypeError(f"All arguments must be of type int, but received: '{argument}'")

    daily_usage = astronauts * 10
    total_usage = daily_usage * day_counter
    total_water_left = water_left - total_usage
    if total_water_left < 0:
        raise RuntimeError(f"Not enough water left! Total water left: {total_water_left}")
    else:
        day_counter += 1
```

```
C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10>python3 water.py
Traceback (most recent call last):
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\water.py", line 21, in <module>
    main()
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\water.py", line 18, in main
    water_left("5", "100", None)
  File "C:\Users\Fercho\Documents\Cursos, diplomados, becas, etc\InnovAccion 2022 - LaunchX\Onboarding\Katas\modulo10\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: '5'
```