Al abrir un archivo inexistente

Función main que abre un archivo inexistente

Utilizando try y except

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()
```

```
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   + ∨ ∧ ✕

> powershell
> Python

```
.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>
```

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_le
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   +

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.py
roPython/env/Scripts/python.exe c:/Users/STYG01/Desktop/microsoft/CursoIntroPython/Modulo_10/config   ⯈ pow
.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                # TypError 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_le
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   + ∨ ∧

                                                                                            ▷ Python
PS C:\Users\STYG01\Desktop\microsoft\CursoIntroPython> & c:/Users/STYG01/Desktop/microsoft/CursoInt   ⯈ powershell
roPython/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>