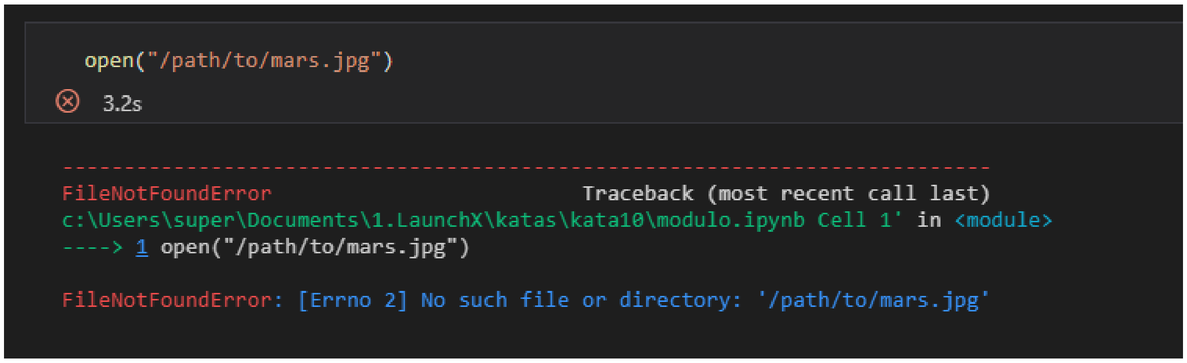
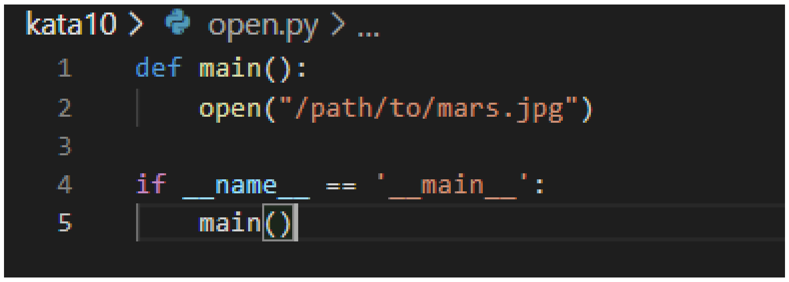
Tracebacks

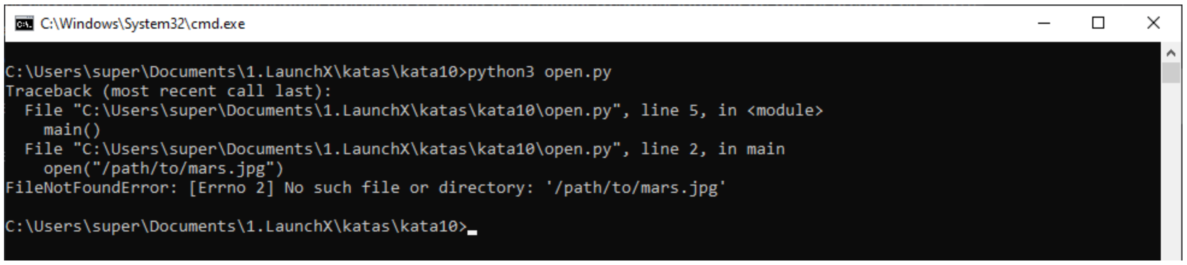


```
open("/path/to/mars.jpg")
⊗ 3.2s

---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
c:\Users\super\Documents\1.LaunchX\katas\kata10\modulo.ipynb Cell 1' in <module>
----> 1 open("/path/to/mars.jpg")

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



kata10 > open.py > ...

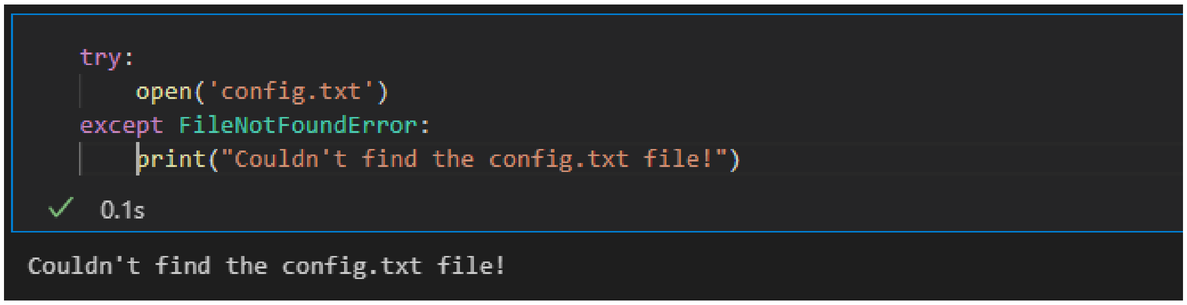
```python
def main():
    open("/path/to/mars.jpg")

if __name__ == '__main__':
    main()
```



C:\Windows\System32\cmd.exe

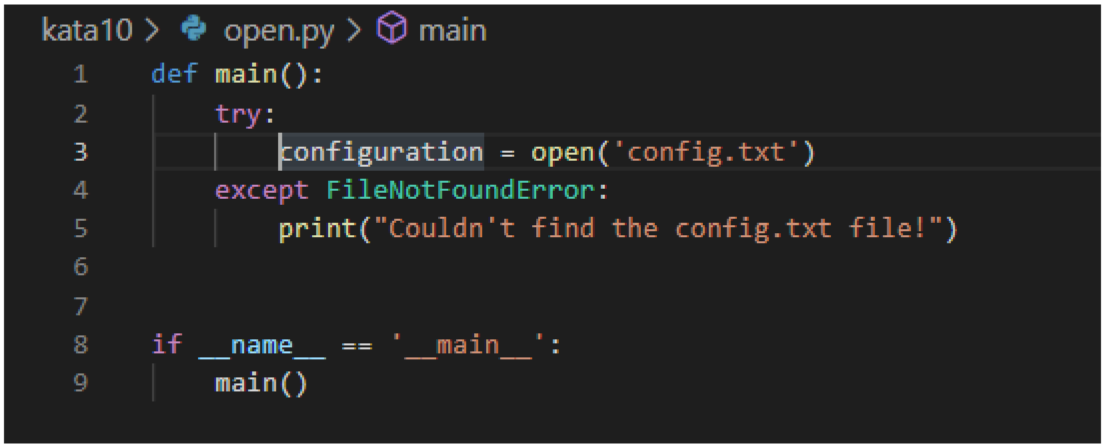
```
C:\Users\super\Documents\1.LaunchX\katas\kata10>python3 open.py
Traceback (most recent call last):
  File "C:\Users\super\Documents\1.LaunchX\katas\kata10\open.py", line 5, in <module>
    main()
  File "C:\Users\super\Documents\1.LaunchX\katas\kata10\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'

C:\Users\super\Documents\1.LaunchX\katas\kata10>_
```

Controlando las excepciones

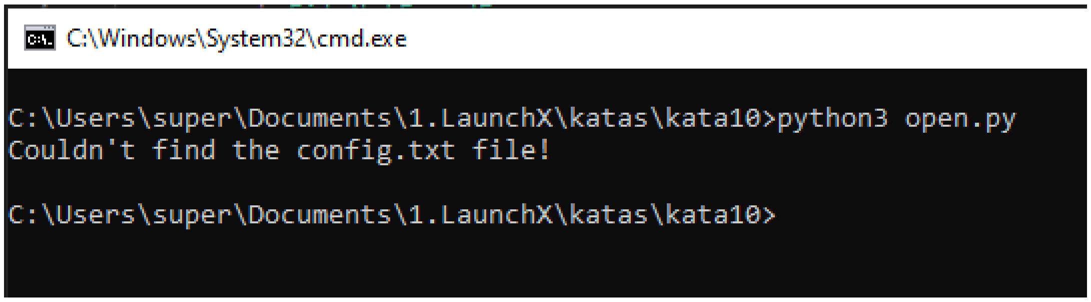


```python
try:
    open('config.txt')
except FileNotFoundError:
    print("Couldn't find the config.txt file!")
```
✓ 0.1s

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

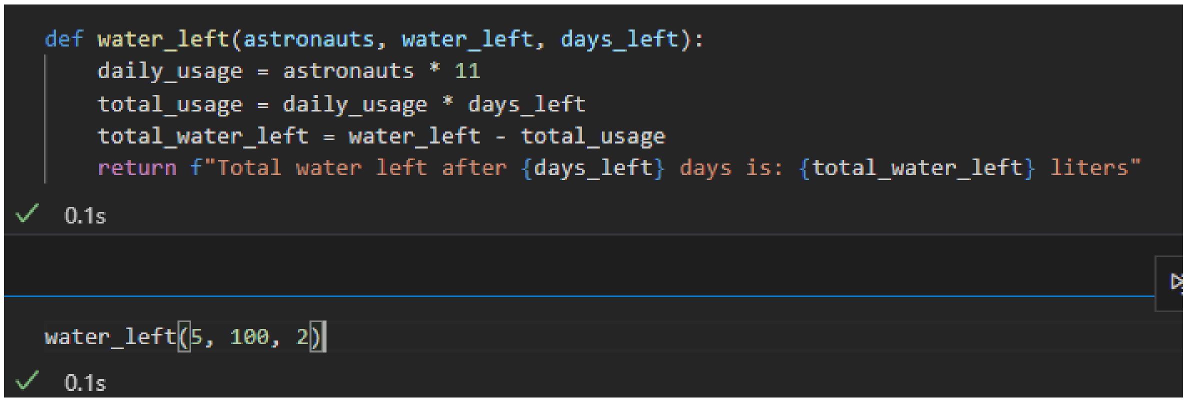


```python
def main():
    try:
        configuration = open('config.txt')
    except FileNotFoundError:
        print("Couldn't find the config.txt file!")


if __name__ == '__main__':
    main()
```



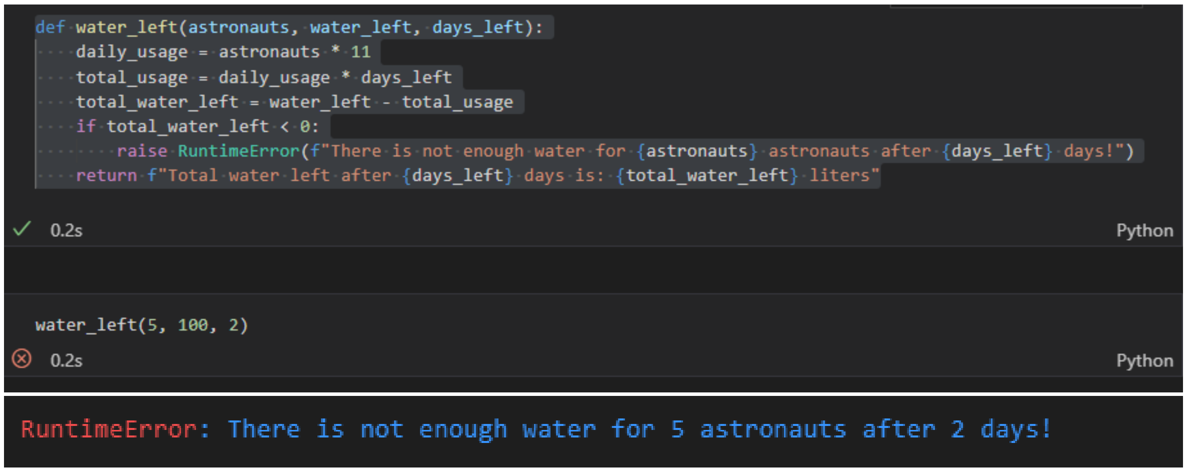
```
C:\Users\super\Documents\1.LaunchX\katas\kata10>python3 open.py
Couldn't find the config.txt file!

C:\Users\super\Documents\1.LaunchX\katas\kata10>
```

Generación de excepciones



```python
def water_left(astronauts, water_left, days_left):
    daily_usage = astronauts * 11
    total_usage = daily_usage * days_left
    total_water_left = water_left - total_usage
    return f"Total water left after {days_left} days is: {total_water_left} liters"
```

```python
water_left(5, 100, 2)
```



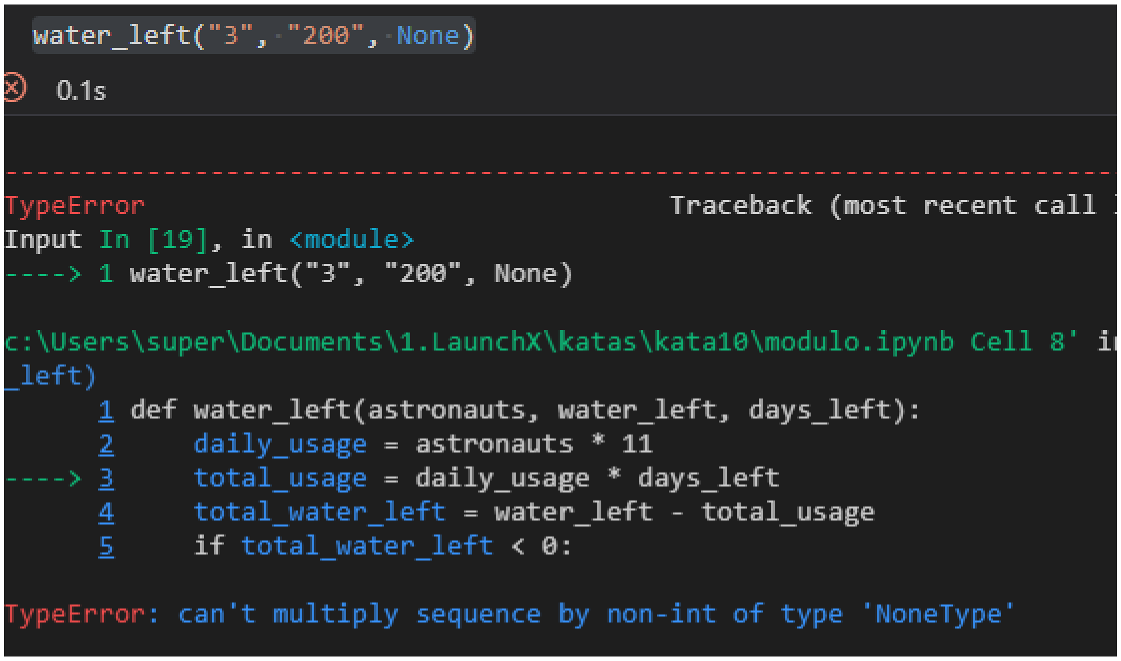
```
def water_left(astronauts, water_left, days_left):
    daily_usage = astronauts * 11
    total_usage = daily_usage * days_left
    total_water_left = water_left - total_usage
    if total_water_left < 0:
        raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
    return f"Total water left after {days_left} days is: {total_water_left} liters"
```

✓ 0.2s Python

```
water_left(5, 100, 2)
```

0.2s Python

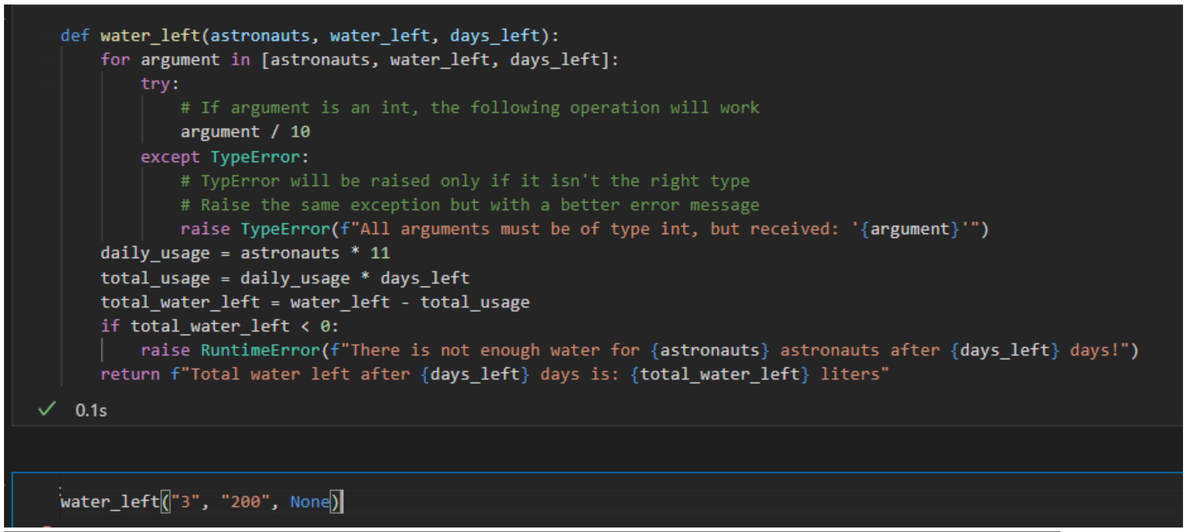
```
RuntimeError: There is not enough water for 5 astronauts after 2 days!
```



```
water_left("3", "200", None)
```

0.1s

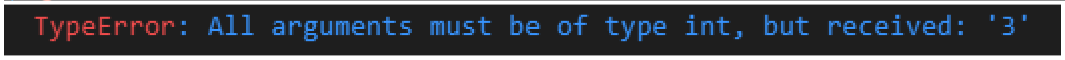
```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call 
Input In [19], in <module>
----> 1 water_left("3", "200", None)

c:\Users\super\Documents\1.LaunchX\katas\kata10\modulo.ipynb Cell 8' i
_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:

TypeError: can't multiply sequence by non-int of type 'NoneType'
```



```python
def water_left(astronauts, water_left, days_left):
    for argument in [astronauts, water_left, days_left]:
        try:
            # If argument is an int, the following operation will work
            argument / 10
        except TypeError:
            # TypError will be raised only if it isn't the right type
            # Raise the same exception but with a better error message
            raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
    daily_usage = astronauts * 11
    total_usage = daily_usage * days_left
    total_water_left = water_left - total_usage
    if total_water_left < 0:
        raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
    return f"Total water left after {days_left} days is: {total_water_left} liters"
```

✓ 0.1s

```python
water_left("3", "200", None)
```



```
TypeError: All arguments must be of type int, but received: '3'
```