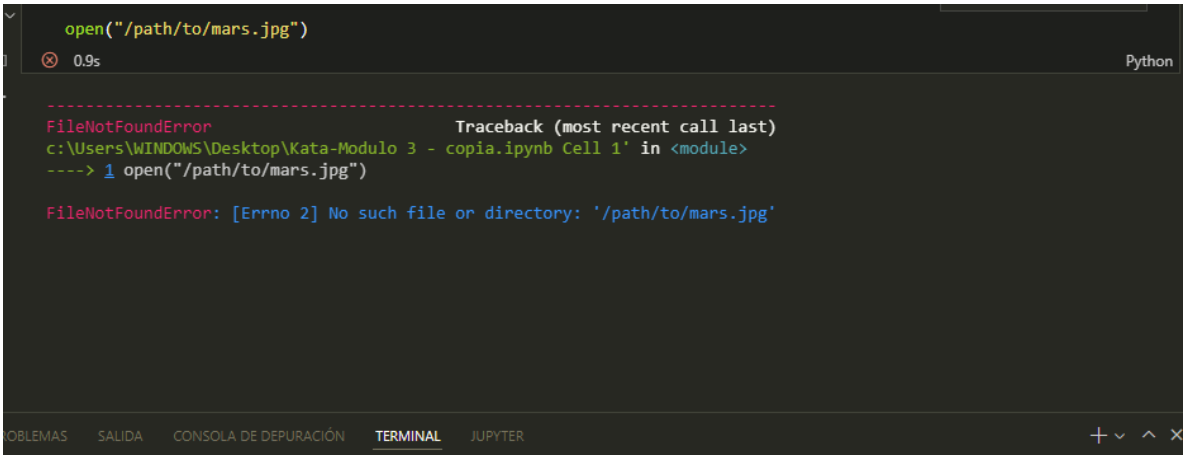
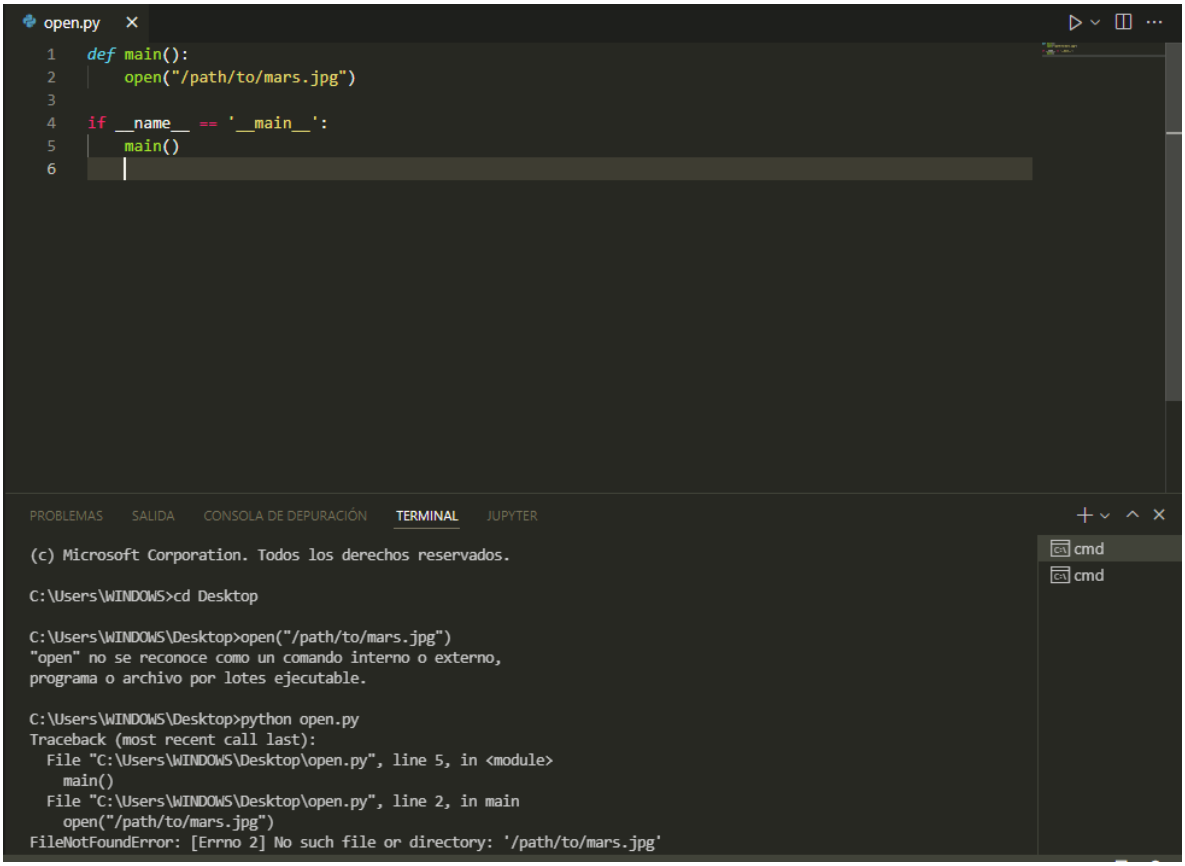
KATA-MODULO 10

Tracebacks





KATA-MODULO 10

Controlando las excepciones

Try y Except de los bloques

KATA-MODULO 10

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"
```

[16] ✓ 0.6s Python

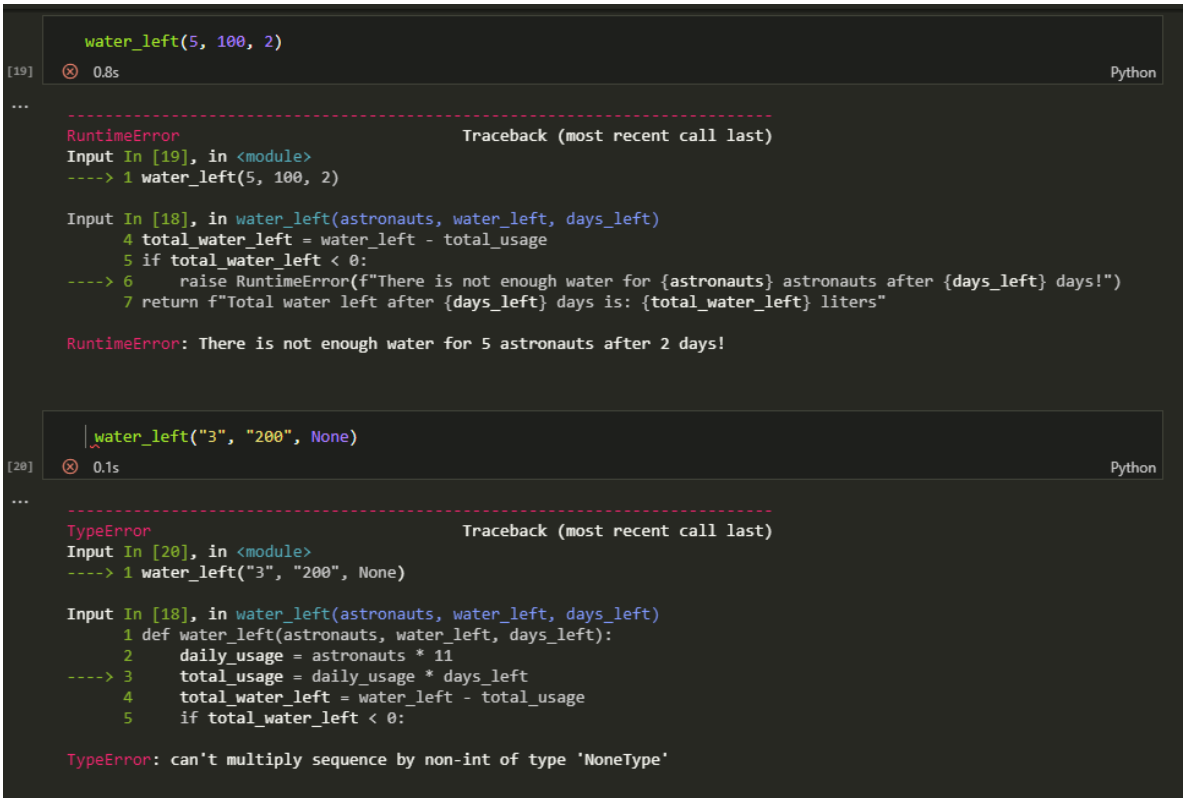
```python
water_left(5, 100, 2)
```

[17] ✓ 0.7s Python

```
'Total water left after 2 days is: -10 liters'
```

```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
    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"
```

[18] ✓ 0.5s Python



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

[19] ⊗ 0.8s Python

```
---------------------------------------------------------------------------
RuntimeError                              Traceback (most recent call last)
Input In [19], in <module>
----> 1 water_left(5, 100, 2)

Input In [18], in water_left(astronauts, water_left, 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"

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

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

[20] ⊗ 0.1s Python

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [20], in <module>
----> 1 water_left("3", "200", None)

Input In [18], in water_left(astronauts, water_left, days_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'
```

KATA-MODULO 10

```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"
```

[23] ✓ 0.7s Python

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

[24] ⊗ 0.1s Python

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [23], in water_left(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     # TypError will be raised only if it isn't the right type
      8     # Raise the same exception but with a better error message

TypeError: unsupported operand type(s) for /: 'str' and 'int'

During handling of the above exception, another exception occurred:

TypeError                                 Traceback (most recent call last)
Input In [24], in <module>
----> 1 water_left("3", "200", None)

Input In [23], in water_left(astronauts, water_left, days_left)
      5         argument / 10
      6     except TypeError:
      7         # TypError 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

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