

Traceback

```
Tracebacks

[6] >>> open("/path/to/mars.jpg")
...
-----
FileNotFoundError                                Traceback (most recent call last)
Input In [6], in <module>
----> 1 open("/path/to/mars.jpg")

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

Try y Except de los bloques

```
Try y Except de los bloques

[1] try:
    open('config.txt')
except FileNotFoundError:
    print("Couldn't find the config.txt file!")
... Couldn't find the config.txt file!
```

```
doguedogue:python> cat config.py
def main():
    try:
        configuration = open('config.txt')
    except FileNotFoundError:
        print("Couldn't find file")

if __name__=='__main__':
    main()
doguedogue:python> python3 config.py
Traceback (most recent call last):
  File "/data/data/com.termux/files/home/python/config.py", line 9, in <module>
    main()
  File "/data/data/com.termux/files/home/python/config.py", line 3, in main
    configuration = open('config.txt')
IsADirectoryError: [Errno 21] Is a directory: 'config.txt'
```

El "Errno 21" aparece en una consola de

```
config.py > ...
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()
```

PROBLEMS 1 OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

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

PS C:\Users\llee4\Desktop\InnoVir> python -u "c:\Users\llee4\Desktop\InnoVir\config.py"
Couldn't find the config.txt file!
PS C:\Users\llee4\Desktop\InnoVir>

```
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 IsADirectoryError:
7         print("Found config.txt but it is a directory, couldn't read it")
8
9
10 if __name__ == '__main__':
11     main()
```

PROBLEMS 1 OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

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

PS C:\Users\llee4\Desktop\InnoVir> python -u "c:\Users\llee4\Desktop\InnoVir\config.py"
Couldn't find the config.txt file!
PS C:\Users\llee4\Desktop\InnoVir>

```
try:
    open("mars.jpg")
except FileNotFoundError as err:
    print("got a problem trying to read the file:", err)
```

[1] ✓ 0.1s Python

... got a problem trying to read the file: [Errno 2] No such file or directory: 'mars.jpg'

```
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")
```

[3] ✓ 0.1s Python

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

Generación de excepciones

```
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"
```

[4] ✓ 0.9s Python

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

[5] ✓ 0.4s Python

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

```
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"
```

[6] ✓ 0.1s Python

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

[7] ✗ 0.1s Python

...

```
RuntimeError                                Traceback (most recent call last)
c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 11' in <module>
----> 1 water_left(5, 100, 2)

c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 10' 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!
```

```
try:
    water_left("3", "200", None)
except RuntimeError as err:
    alert_navigation_system(err)
```

[9] ✗ 0.1s Python

...

```
TypeError                                Traceback (most recent call last)
c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 12' in <module>
      1 try:
----> 2     water_left("3", "200", None)
      3 except RuntimeError as err:
      4     alert_navigation_system(err)

c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 10' 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'
```

```
water_left("3", "200", None)
[11] 0.2s Python
...
-----
TypeError                                Traceback (most recent call last)
c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 13' 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     # TypeError 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)
c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 14' in <module>
----> 1 water_left("3", "200", None)

c:\Users\llee4\Desktop\InnoVir\kata-modulo-10.ipynb Cell 13' in water_left(astronauts, water_left, days_left)
      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

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