# Ejercicio. - Escenario: Creación de un programa de cohetes

Tracebacks



```
PROBLEMAS    SALIDA    TERMINAL    CONSOLA DE DEPURACIÓN

Warning:
This Python interpreter is in a conda environment, but the environment has
not been activated.  Libraries may fail to load.  To activate this environment
please see https://conda.io/activation

Type "help", "copyright", "credits" or "license" for more information.
>>> open("/path/to/mars.jpg")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
>>>
```
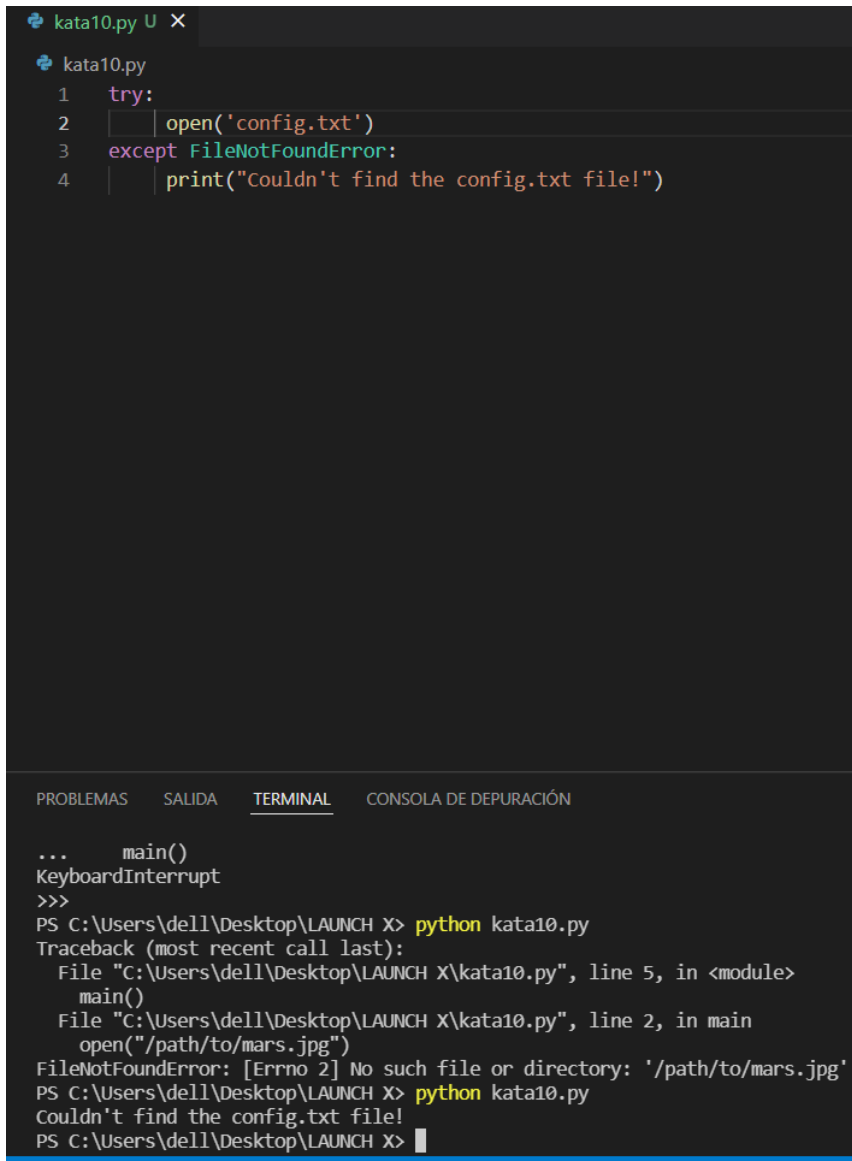


```
kata10.py U  ×
kata10.py > ...
1    def main():
2        open("/path/to/mars.jpg")
3
4    if __name__ == '__main__':
5        main()
```

```
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...
>>> if __name__ == '__main__':
...     main()
KeyboardInterrupt
>>>
PS C:\Users\dell\Desktop\LAUNCH X> python kata10.py
Traceback (most recent call last):
  File "C:\Users\dell\Desktop\LAUNCH X\kata10.py", line 5, in <module>
    main()
  File "C:\Users\dell\Desktop\LAUNCH X\kata10.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS C:\Users\dell\Desktop\LAUNCH X>
```

# Controlando las excepciones

```
kata10.py U ×
kata10.py
1    try:
2        open('config.txt')
3    except FileNotFoundError:
4        print("Couldn't find the config.txt file!")
```

```
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...      main()
KeyboardInterrupt
>>>
PS C:\Users\dell\Desktop\LAUNCH X> python kata10.py
Traceback (most recent call last):
  File "C:\Users\dell\Desktop\LAUNCH X\kata10.py", line 5, in <module>
    main()
  File "C:\Users\dell\Desktop\LAUNCH X\kata10.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS C:\Users\dell\Desktop\LAUNCH X> python kata10.py
Couldn't find the config.txt file!
PS C:\Users\dell\Desktop\LAUNCH X>
```

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


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

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```
Command 'python' not found, did you mean:

  command 'python3' from deb python3
  command 'python' from deb python-is-python3

mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Traceback (most recent call last):
  File "config.py", line 9, in <module>
    main()
  File "config.py", line 3, in main
    configuration = open('config.txt')
IsADirectoryError: [Errno 21] Is a directory: 'config.txt'
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$
```

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

    except IsADirectoryError:
        print("Found config.txt but it is a directory, couldn't read it")


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

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mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Found config.txt but it is a directory, couldn't read it
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ ▮

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

    except IsADirectoryError:
        print("Found config.txt but it is a directory, couldn't read it")

    except (BlockingIOError, TimeoutError):
        print("Filesystem under heavy load, can't complete reading configuration file")



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

```python
def main():
    try:
        configuration = open('config.txt')
    except FileNotFoundError:
        print("Couldn't find the config.txt file!")
    except IsADirectoryError:
        print("Found config.txt but it is a directory, couldn't read it")
    except (BlockingIOError, TimeoutError):
        print("Filesystem under heavy load, can't complete reading configuration file")


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

```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"

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

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```
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ chmod 0 config.txt
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Found config.txt but it is a directory, couldn't read it
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Couldn't find the config.txt file!
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Couldn't find the config.txt file!
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Total water left after 2 days is: -10 liters
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$
```

```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"

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

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Ve a Config

```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"

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

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```
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ python3 config.py
Traceback (most recent call last):
  File "config.py", line 5, in water_left
    argument / 10
TypeError: unsupported operand type(s) for /: 'str' and 'int'

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "config.py", line 17, in <module>
    print(water_left("3", "200", None))
  File "config.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: '3'
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ 
```

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