

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

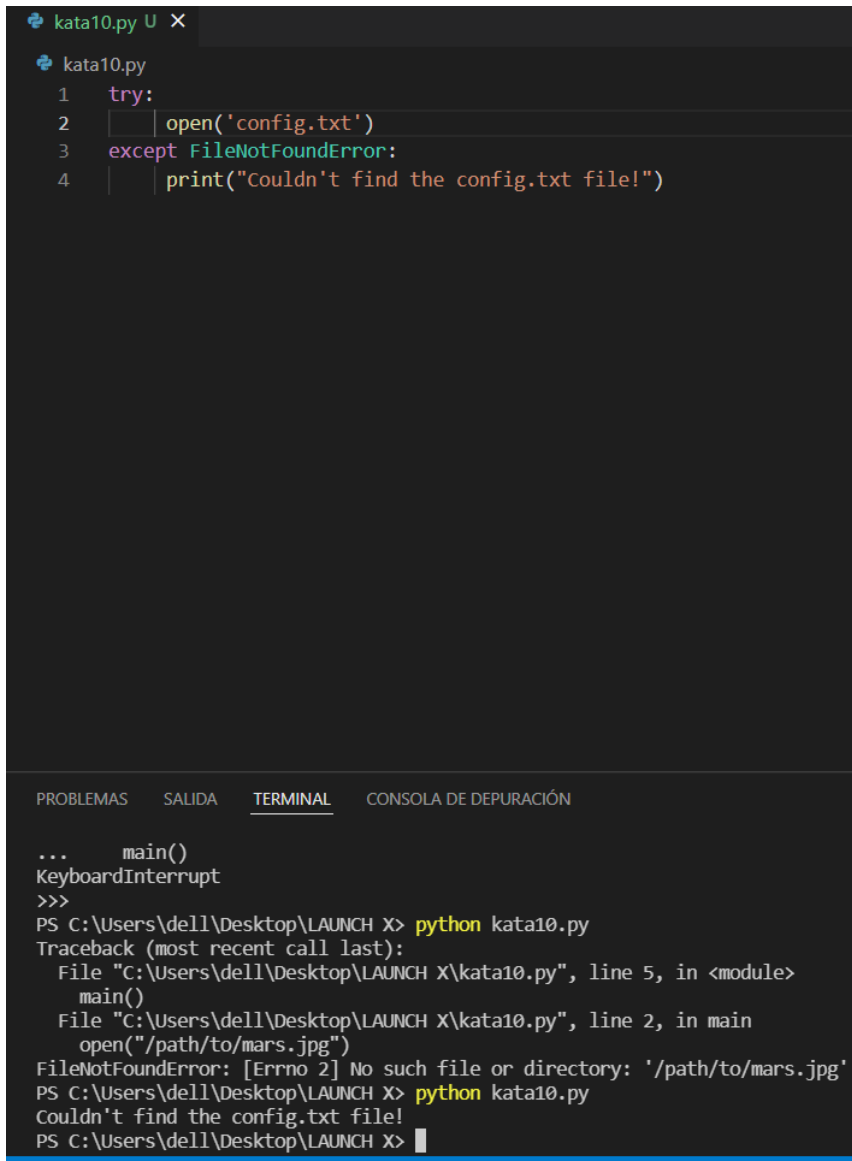
Type "help", "copyright", "credits" or "license" for more information.
>>> open("/path/to/mars.jpg")
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
>>> █
```

```
kata10.py U X
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



The image shows a code editor window with a file named `kata10.py` and a terminal window below it. The code in the editor is a Python script that attempts to open a file named `config.txt` and catches a `FileNotFoundError` exception. The terminal shows the execution of the script, which results in a `FileNotFoundError` being raised because the file does not exist. The terminal output includes a traceback showing the call stack from the `main()` function to the `open()` function.

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

PROBLEMAS  SALIDA  TERMINAL  CONSOLA DE DEPURACIÓN

...    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>
```

config.py U X kata10.py U

config.py > ...

```
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6
7
8 if __name__ == '__main__':
9     main()
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

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\$

config.py U X

config.py > ...

```
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6
7     except IsADirectoryError:
8         print("Found config.txt but it is a directory, couldn't read it")
9
10
11 if __name__ == '__main__':
12     main()
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

```
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$
```

```
config.py U • kata10.py U
config.py > ...
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6
7     except IsADirectoryError:
8         print("Found config.txt but it is a directory, couldn't read it")
9
10    except (BlockingIOError, TimeoutError):
11        print("Filesystem under heavy load, can't complete reading configuration file")
12
13
14
15 if __name__ == '__main__':
16     main()
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

This message is shown once once a day. To disable it please create the
/home/mexicani/.hushlogin file.

```
mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X$ chmod 754 mi-archivo.txt
más en: https://ayudalinux.com/comando-chmod-que-es-como-usarlo/chmod: cannot access 'mi-archivo.txt': No such file or directory
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$
```

Activar W
Ve a Configur

config.py U X kata10.py U

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     except (BlockingIOError, TimeoutError):
9         print("Filesystem under heavy load, can't complete reading configuration file")
10
11
12 if __name__ == '__main__':
13     main()
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

This message is shown once once a day. To disable it please create the
/home/mexicani/.hushlogin file.

mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X\$ chmod 754 mi-archivo.txt

más en: <https://ayudalinux.com/comando-chmod-que-es-como-usarlo/chmod: cannot access 'mi-archivo.txt': No such file or directory>

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\$

Activar
Ve a Config

config.py U X kata10.py U

config.py > ...

```
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     return f"Total water left after {days_left} days is: {total_water_left} liters"
6
7 print(water_left(5, 100, 2))
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

```
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$
```

config.py U × kata10.py U

config.py > ...

```
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:
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"
8
9 print(water_left(5, 100, 2))
```

PROBLEMAS SALIDA TERMINAL CONSOLA DE DEPURACIÓN

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\$ python3 config.py

Traceback (most recent call last):

File "config.py", line 9, in <module>

print(water_left(5, 100, 2))

File "config.py", line 6, in water_left

raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")

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

mexicani@DESKTOP-ASF2DD8:/mnt/c/Users/dell/Desktop/LAUNCH X\$

Activar V
Ve a Config


```
config.py U x kata10.py U
config.py > ...
1 def water_left(astronauts, water_left, days_left):
2     for argument in [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
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
12    total_water_left = water_left - total_usage
13    if total_water_left < 0:
14        raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
15    return f"Total water left after {days_left} days is: {total_water_left} liters"
16
17 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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