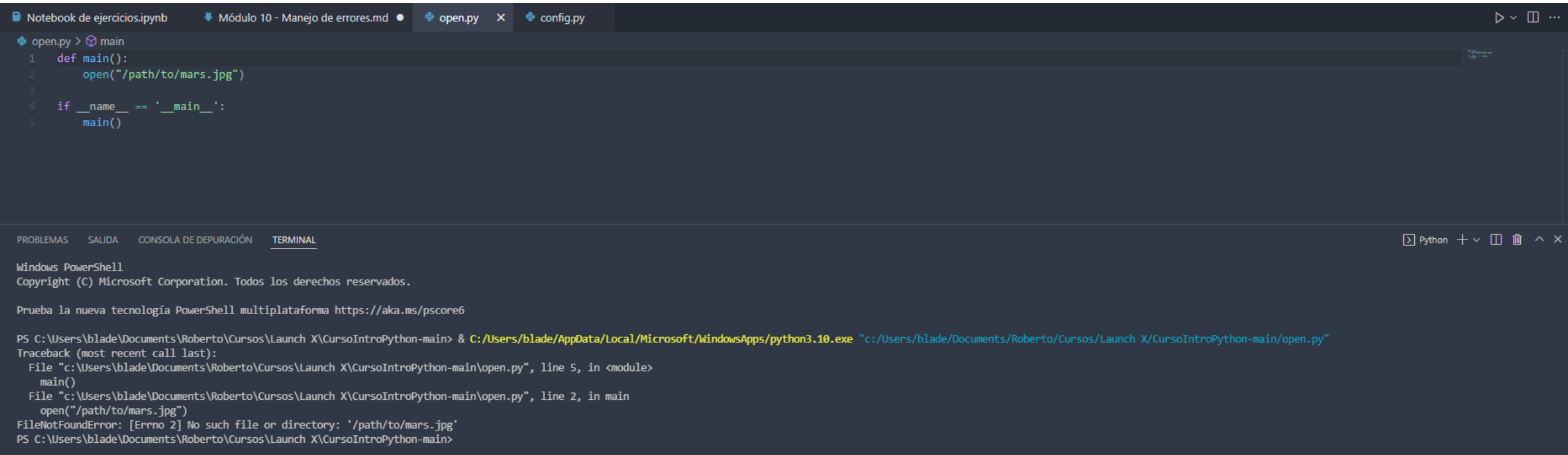


Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains tabs for 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'open.py' tab is active, showing a Python code cell with the following code:

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

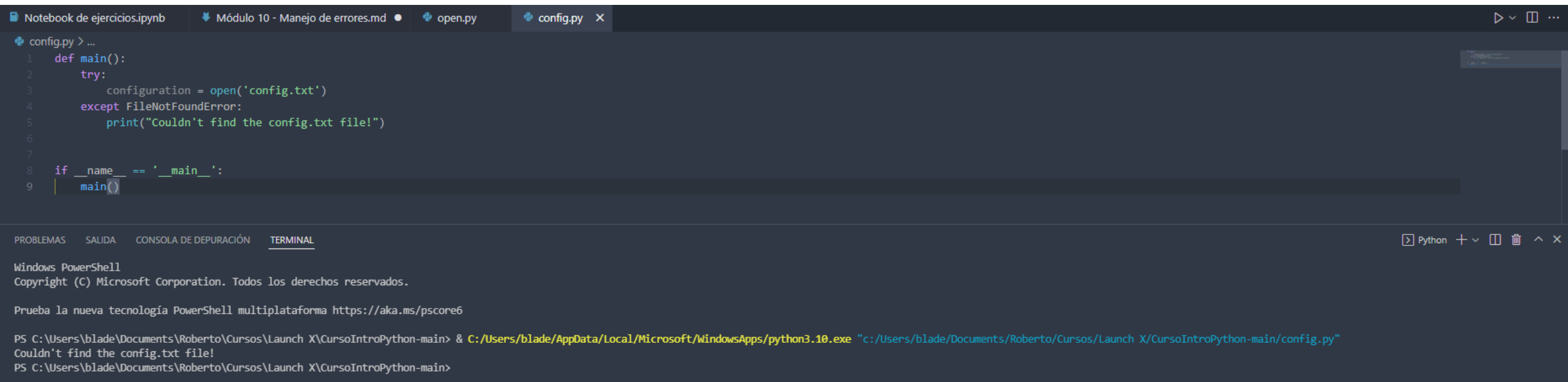
Below the code cell, the 'TERMINAL' tab is active, displaying the output of the code execution. The output shows a Windows PowerShell prompt and a traceback error:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

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

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/open.py"
Traceback (most recent call last):
  File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\open.py", line 5, in <module>
    main()
  File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\open.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\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>
```

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains tabs for 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script with a try-except block for file handling. Below the code editor, the 'TERMINAL' tab is selected, showing the execution of the script using the Windows PowerShell command prompt. The output indicates that the 'config.txt' file was not found.

```
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 CONSOLA DE DEPURACIÓN TERMINAL

Python + ▾ □ ✕ ^ ×

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

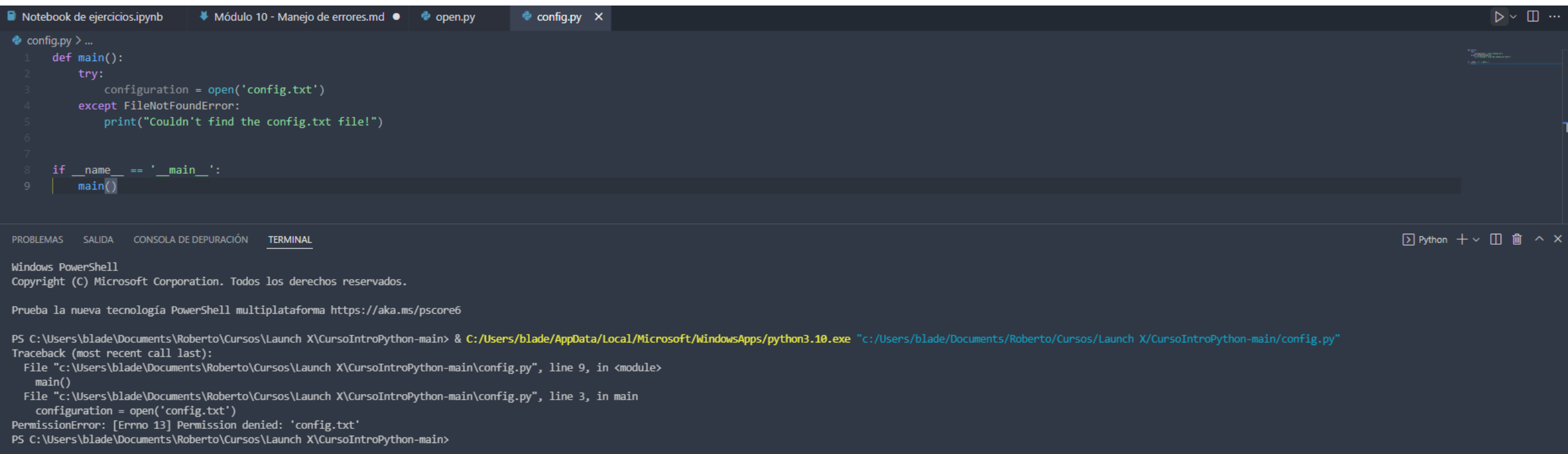
Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"

Couldn't find the config.txt file!

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script. The script defines a 'main' function that attempts to open 'config.txt' and prints an error message if it fails. Below the script, the 'TERMINAL' tab is active, showing the command prompt output. The command executed is 'C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"'. The output shows a 'PermissionError: [Errno 13] Permission denied: 'config.txt''.

```
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 CONSOLA DE DEPURACIÓN TERMINAL

Python + ▾ □ 🗑 ⬆ ✕

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

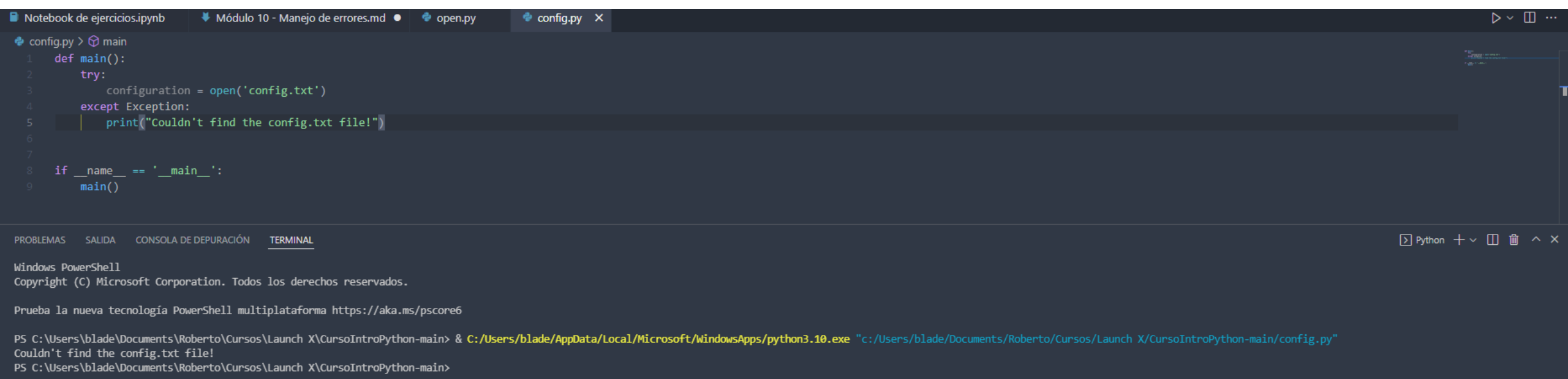
Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"

Traceback (most recent call last):
File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\config.py", line 9, in <module>
 main()
File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\config.py", line 3, in main
 configuration = open('config.txt')
PermissionError: [Errno 13] Permission denied: 'config.txt'

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script with a try-except block for file handling. Below the code editor, the 'TERMINAL' tab is selected, showing the execution of the script using the Windows PowerShell command prompt. The output indicates that the 'config.txt' file was not found.

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

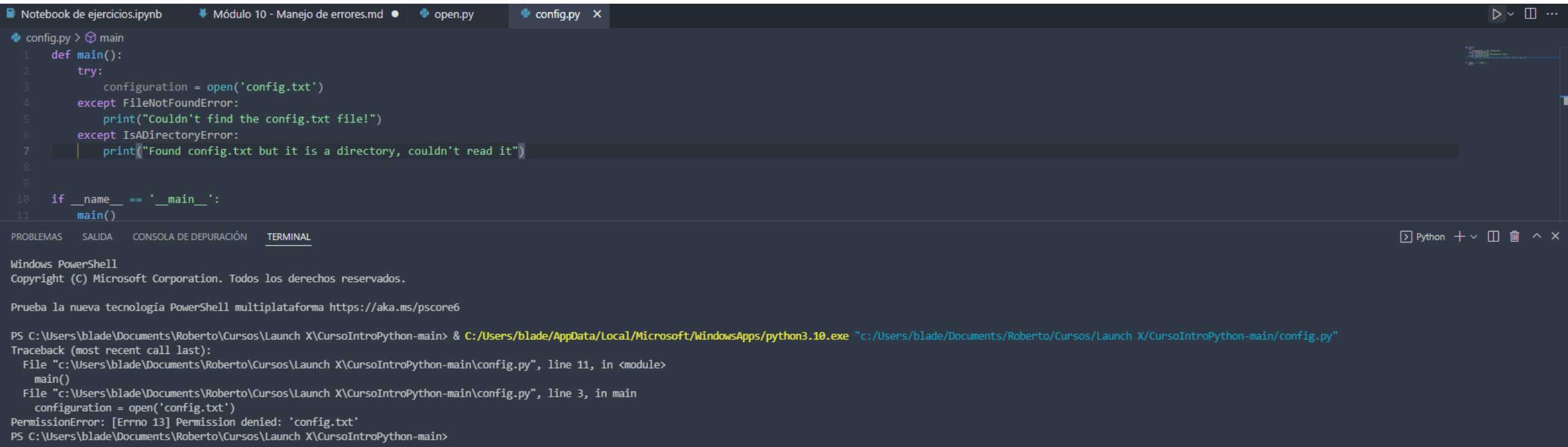
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

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

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"
Couldn't find the config.txt file!
PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script. The script defines a `main()` function that attempts to open a file named 'config.txt'. It uses a `try` block to handle `FileNotFoundError` and `IsADirectoryError`. The `FileNotFoundError` case prints a message about the file not being found, while the `IsADirectoryError` case prints a message indicating that the file is a directory and cannot be read. The script also includes a standard `if __name__ == '__main__':` guard to call the `main()` function.

```
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()
```

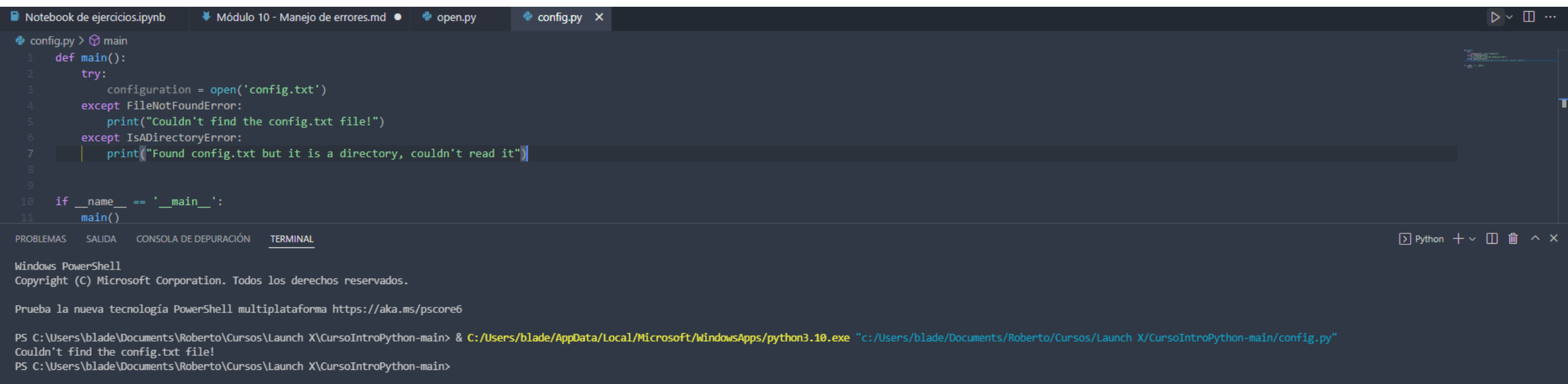
Below the code editor, there is a terminal window with tabs for 'PROBLEMAS', 'SALIDA', 'CONSOLA DE DEPURACIÓN', and 'TERMINAL'. The 'TERMINAL' tab is selected, showing the output of the script execution. The output indicates that the script was run from a PowerShell prompt, and a `PermissionError` occurred because the script did not have permission to access the 'config.txt' file.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

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

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"
Traceback (most recent call last):
  File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\config.py", line 11, in <module>
    main()
  File "c:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main\config.py", line 3, in main
    configuration = open('config.txt')
PermissionError: [Errno 13] Permission denied: 'config.txt'
PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>
```

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script. The script defines a `main()` function that attempts to open a file named 'config.txt'. It uses a `try` block with `except` clauses for `FileNotFoundError` and `IsADirectoryError`. The `FileNotFoundError` clause prints 'Couldn't find the config.txt file!', and the `IsADirectoryError` clause prints 'Found config.txt but it is a directory, couldn't read it'. The script also includes a standard `if __name__ == '__main__': main()` block. Below the code editor, the 'TERMINAL' tab is active, showing the output of running the script. The terminal output indicates that the file was not found, matching the `FileNotFoundError` exception.

```
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()
```

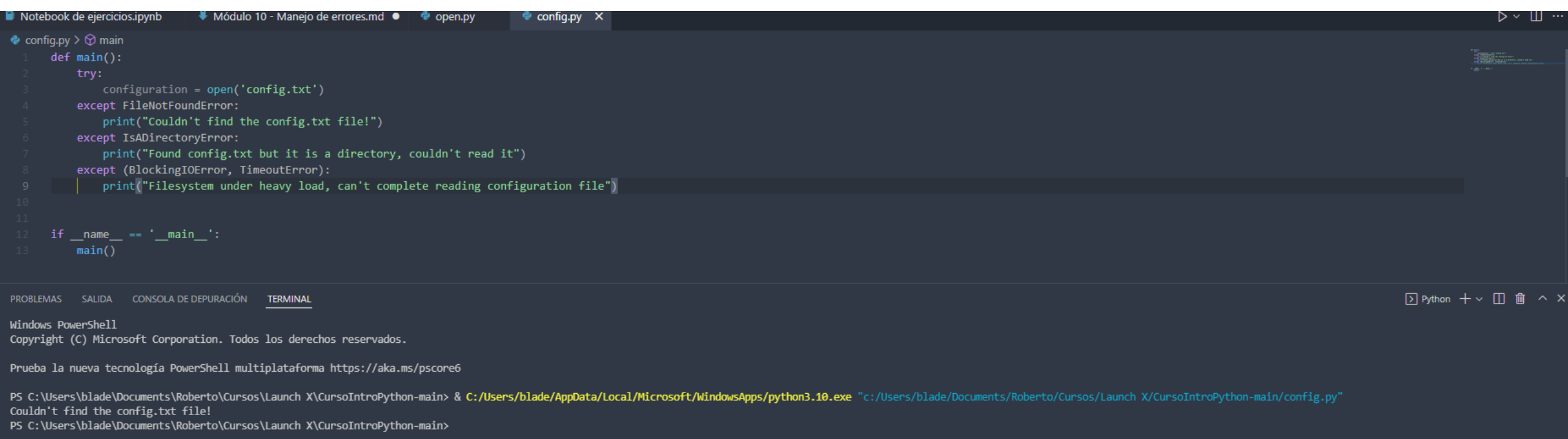
PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

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

```
PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"
Couldn't find the config.txt file!
PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>
```

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'open.py', and 'config.py'. The 'config.py' tab is active, displaying a Python script with a `main` function that handles file-related exceptions. The script is as follows:

```
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()
```

Below the code editor is a terminal window with tabs for 'PROBLEMAS', 'SALIDA', 'CONSOLA DE DEPURACIÓN', and 'TERMINAL'. The 'TERMINAL' tab is selected, showing the output of the script execution in a Windows PowerShell environment. The output indicates that the file 'config.txt' was not found.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

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

PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main> & C:/Users/blade/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/blade/Documents/Roberto/Cursos/Launch X/CursoIntroPython-main/config.py"
Couldn't find the config.txt file!
PS C:\Users\blade\Documents\Roberto\Cursos\Launch X\CursoIntroPython-main>
```

Kata 10

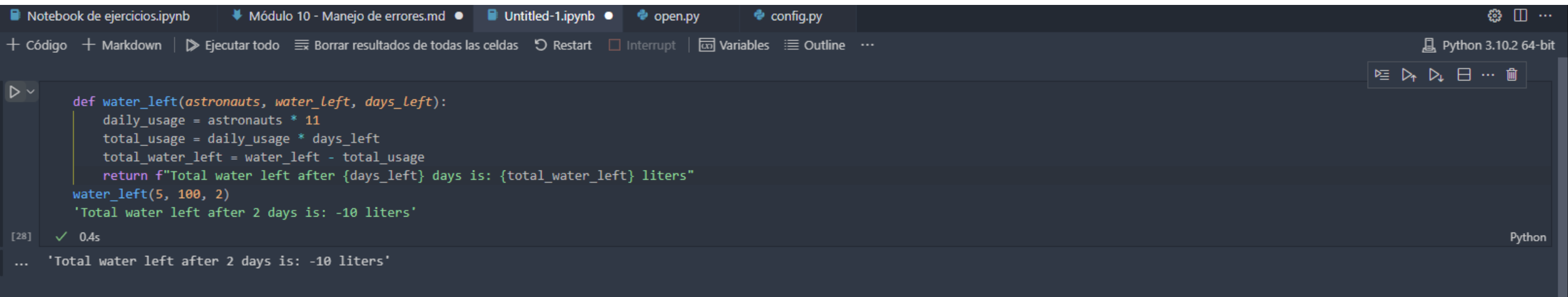
```
def water_left(astronauts, water_left, days_left):  
    daily_usage = astronauts * 11  
    total_usage = daily_usage * days_left  
    total_water_left = water_left - total_usage  
    if total_water_left < 0:  
        raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")  
    return f"Total water left after {days_left} days is: {total_water_left} liters"  
water_left(5, 100, 2)  
'Total water left after 2 days is: -10 liters'
```

✓ 0.5s

Python

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

Kata 10



The screenshot shows a Jupyter Notebook interface with a dark theme. The top bar contains several tabs: 'Notebook de ejercicios.ipynb', 'Módulo 10 - Manejo de errores.md', 'Untitled-1.ipynb' (active), 'open.py', and 'config.py'. Below the tabs is a toolbar with icons for '+ Código', '+ Markdown', 'Ejecutar todo', 'Borrar resultados de todas las celdas', 'Restart', 'Interrupt', 'Variables', 'Outline', and a menu icon. On the right side of the toolbar, it says 'Python 3.10.2 64-bit'. The main area of the notebook shows a code cell with the following Python code:

```
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"  
water_left(5, 100, 2)  
'Total water left after 2 days is: -10 liters'
```

Below the code cell, the output is displayed: '[28] ✓ 0.4s' followed by the string output '... 'Total water left after 2 days is: -10 liters''. The output is shown in a light gray box.

Kata 10

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

[33] 0.1s

Python

```
-----  
RuntimeError                                Traceback (most recent call last)  
Input In [33], in <module>  
      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 water_left(5, 100, 2)  
  
Input In [33], 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!
```

Kata 10

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

[34]

⊗ 0.1s

Python

TypeError Traceback (most recent call last)

Input In [34], in <module>

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

Input In [34], 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 10

+ Código + Markdown | ▶ Ejecutar todo | ✖ Borrar resultados de todas las celdas | ↺ Restart | ⏏ Interrupt | 📄 Variables | 📖 Outline | ...

Python 3.10.2 64-b

⌵ ▶ ⏏ 📄 ... 🗑

```
def water_left(astronauts, water_left, days_left):
    for argument in [astronauts, water_left, days_left]:
        try:
            argument / 10
        except TypeError:
            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"

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

[35] ⓧ 0.1s

Python

```
-----
TypeError                                Traceback (most recent call last)
Input In [35], in water_left(astronauts, water_left, days_left)
      3 try:
----> 4     argument / 10
      5 except TypeError:

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 [35], in <module>
     11     raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
     12     return f"Total water left after {days_left} days is: {total_water_left} liters"
--> 13 water_left("3", "200", None)

Input In [35], in water_left(astronauts, water_left, days_left)
      4     argument / 10
      5     except TypeError:
----> 6         raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
      7 daily_usage = astronauts * 11
      8 total_usage = daily_usage * days_left

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