```
open.py  ×

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

```
C:\Users\Saldi\Documents>cd Katas 10 2.0

C:\Users\Saldi\Documents\Katas 10 2.0>python3 open.py
Traceback (most recent call last):
  File "C:\Users\Saldi\Documents\Katas 10 2.0\open.py", line 5, in <module>
    main()
  File "C:\Users\Saldi\Documents\Katas 10 2.0\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
```

```
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()
```

```
C:\Users\Saldi\Documents\Katas 10 2.0>python config.py
Traceback (most recent call last):
  File "C:\Users\Saldi\Documents\Katas 10 2.0\config.py", line 9, in <module>
    main()
  File "C:\Users\Saldi\Documents\Katas 10 2.0\config.py", line 3, in main
    configuration = open('config.txt')
PermissionError: [Errno 13] Permission denied: 'config.txt'
```

```python
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()
```

```
C:\Users\Saldi\Documents\Katas 10 2.0>python config.py
Couldn't find the config.txt file!
```

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

```
C:\Users\Saldi\Documents\Katas 10 2.0>python config.py
Couldn't find the config.txt file!
```

```python
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()
```

```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))
```

  File "c:\Users\Saldi\Documents\Katas 10 2.0\open.py", line 5, in <module>
    main()
  File "c:\Users\Saldi\Documents\Katas 10 2.0\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\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 10 2.0/Astronautas.py"
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 10 2.0/Astronautas.py"
Total water left after 2 days is: -10 liters
PS C:\Users\Saldi\Documents\Katas 10 2.0>

```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 {d
    return f"Total water left after {days_left} days is: {total_water_left} liters"

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

FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 10 2.0/Astronautas.py"
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 10 2.0/Astronautas.py"
Total water left after 2 days is: -10 liters
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 10 2.0/Astronautas.py"
Traceback (most recent call last):
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 9, in <module>
    print(water_left(5, 100, 2))
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.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!
PS C:\Users\Saldi\Documents\Katas 10 2.0>

```python
Astronautas.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 {d
  7       return f"Total water left after {days_left} days is: {total_water_left} liters"
  8
  9   print(water_left("3", "200", None))
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**

```
Saldi/Documents/Katas 10 2.0/Astronautas.py"
Total water left after 2 days is: -10 liters
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/
Saldi/Documents/Katas 10 2.0/Astronautas.py"
Traceback (most recent call last):
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 9, in <module>
    print(water_left(5, 100, 2))
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.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!
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/
Saldi/Documents/Katas 10 2.0/Astronautas.py"
Traceback (most recent call last):
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 9, in <module>
    print(water_left("3", "200", None))
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 3, in water_left
    total_usage = daily_usage * days_left
TypeError: can't multiply sequence by non-int of type 'NoneType'
PS C:\Users\Saldi\Documents\Katas 10 2.0>
```

```python
Astronautas.py > ⊗ water_left
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                # 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
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))
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   ▶ Python + ∨ ⊞ 🗑 ∧ ✕

```
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 1
0 2.0/Astronautas.py"
Traceback (most recent call last):
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 9, in <module>
    print(water_left("3", "200", None))
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 3, in water_left
    total_usage = daily_usage * days_left
TypeError: can't multiply sequence by non-int of type 'NoneType'
PS C:\Users\Saldi\Documents\Katas 10 2.0> & C:/Users/Saldi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Saldi/Documents/Katas 1
0 2.0/Astronautas.py"
Traceback (most recent call last):
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.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 "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.py", line 17, in <module>
    print(water_left("3", "200", None))
  File "c:\Users\Saldi\Documents\Katas 10 2.0\Astronautas.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'
PS C:\Users\Saldi\Documents\Katas 10 2.0>
```