

ECM251 - Linguagens I

Arquivos e Exceções

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Objetivos da aula de hoje

- Conseguir utilizar arquivos
- Compreender e utilizar exceções
- Avançar na Implementação do Projeto

Arquivos

Arquivos



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Arquivos

PYTHON FILE HANDLING

File : Where we store our data.

File handling means reading data of a file or writing data into a file using Python Program.

IMPORTANT POINTS TO UNDERSTAND FILE HANDLING:

1. Path of the File:

- a. Absolute Path :- It shows the path from the topmost hierarchy

C:\Users\user\Desktop\students.txt

- b. Relative Path :- *students.txt*

2. Built-in Functions used in File Handling:

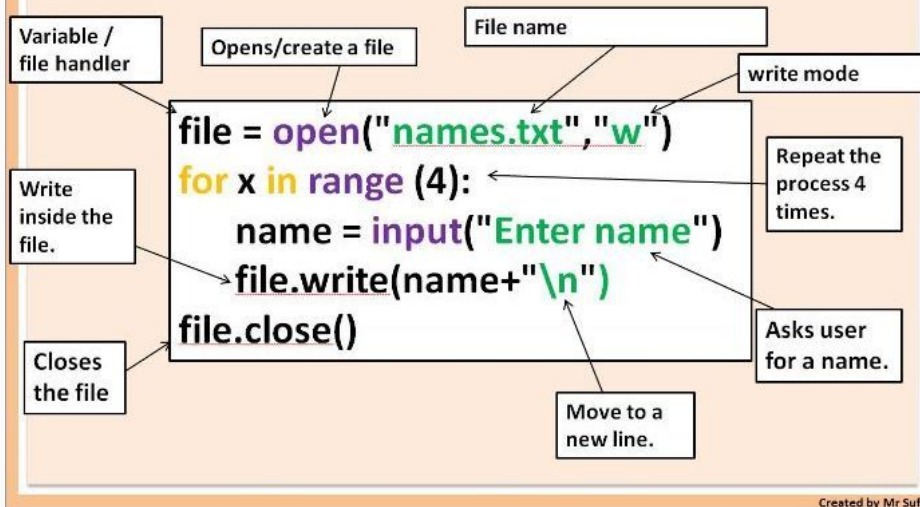
`read()` / `readline()` / `readlines()`

3. Modes: - `r/w/a/r+/w+/a+`

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Arquivos

Writing to a file



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Arquivos

Python File Read

- Reading both Text and Binary files
- All methods for reading a text file such as `read()`, `readline()`, and `readlines()`
- With Statement
- Reading and Writing to the same file
- Read First and last N lines
- Reading N Bytes From The File

```
# read file with absolute path
try:
    fp = open(r"E:\demos\files\read_demo.txt", "r")
    print(fp.read())
    fp.close()
except FileNotFoundError:
    print("Please check the path")
```

PYnative

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Arquivos

Python File Handling



1. Create Files
2. Read Files
3. Write to Files

```
# Create and Write
with open('test.txt', 'w') as fp:
    fp.write('new line')
# Read
with open('test.txt', 'r') as fp:
    fp.read()
```

PYnative.com



1. List Files From Directory
2. Copy, Rename, Delete Files from Directory
3. Copy, Delete Directories

```
os.rename('old_file_name', 'new_file_name')
os.remove('file_path')

shutil.copy('src_file_path', 'new_path')
shutil.move('src_file_path', 'new_path')

os.listdir('dir_path') # Get all files
shutil.rmtree('path') # Remove directory
shutil.copytree('src_path', 'dst_path') # Copy dir
```

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Exceções

Exceções



Real Python

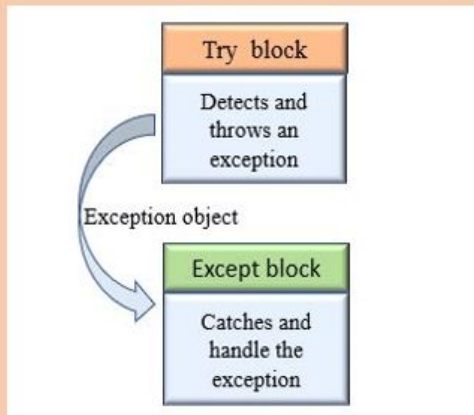
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Exceções

Python Exception Handling

An exception is an event that occurs during the execution of programs that **disrupt the normal flow of execution**

1. Try-except-finally
2. Raise an exception
3. Exception chaining
4. Built-in exceptions
5. Custom exceptions



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Exceções

try:



Run this code

except:



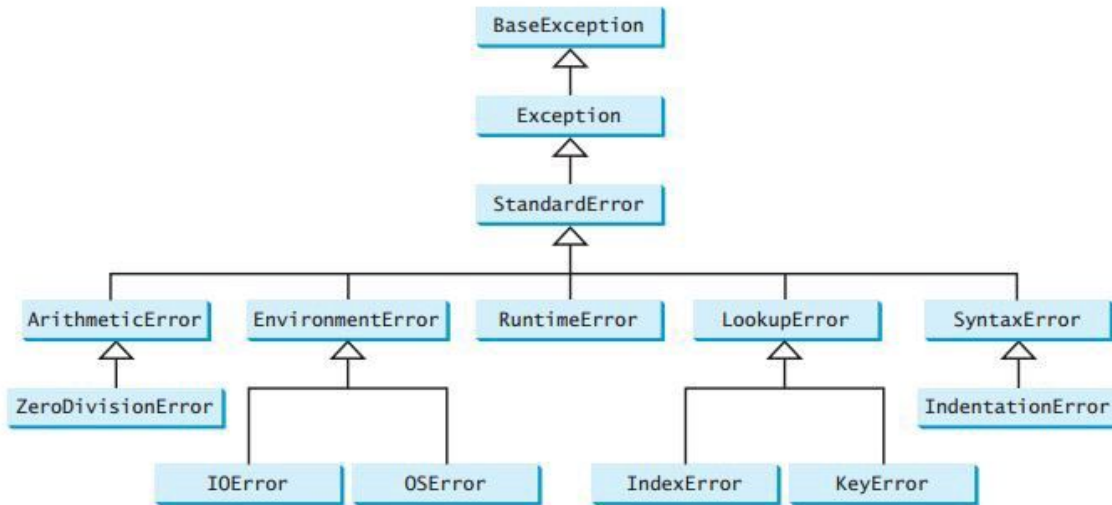
Execute this code when
there is an exception

Exceções



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Exceções



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Vamos continuar com o desenvolvimento do projeto?

Foco:

- Login
- Estoque

Perguntas?



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