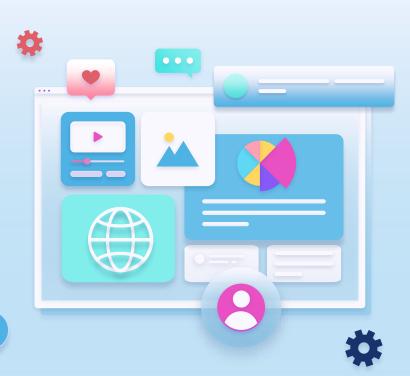
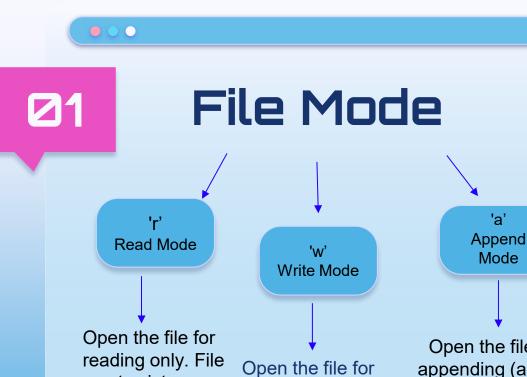


Python Input/ Output

Leen Mohammed Alsaleh



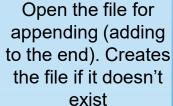


writing. Overwrites

existing content or

creates a new file.

must exist.











Encoding

هو طريقة أو نظام يحوّل الحروف والكلمات اللي نكتبها زي "ريم" إلى أرقام يفهمها الكمبيوتر. الكمبيوتر ما يفهم "ريم" ولا "hello" يفهمها على شكل أصفار وآحادbinary : (0 و 1) علشان كذا لازم نحوّل النص إلى أرقام وهذي مهمة encoding



The most Popular type of Encoding



UTF-8

Unicode Transformation Format - 8-bit

موقع يحول

: Binary إلى Unicode

https://www.rapidtables.com/convert/number/decimal-to-binary.html

موقع يحول الحرف إلى UNICODE:

https://unicode-table.com/



• • •

تفتح لنا الملف - Open(): Open the file علشان: نقراء منه أو نكتب فيه او نضيف عليه لكن إذا استخدمنا (Open لحالها لازم نسكر الملف بنفسنا بـ file.close()

وإذا نسينا؟ ممكن يصير تسريب أو مشاكل!

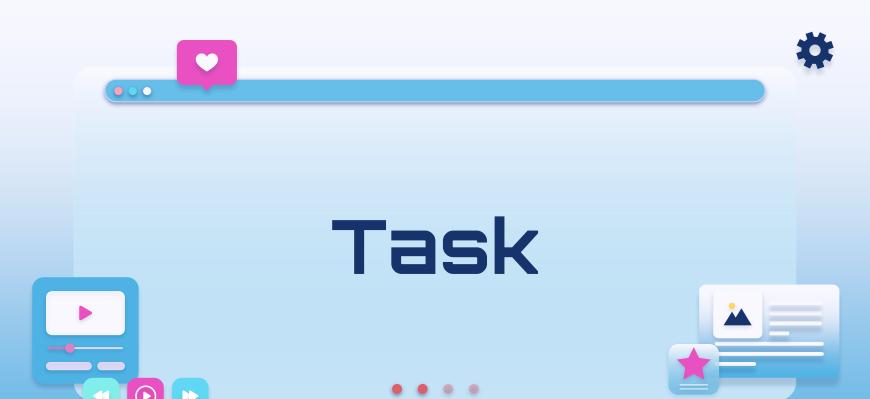
تفتح لك الملف وتسكره لك تلقائيًا سواء اشتغل الكود صح أو صار فيه خطأ.



with open ()









0. Read file

We defined a function called read_file.

It takes one parameter called filename.

If no file name is provided, it will default to an empty string.

```
#!/usr/bin/python3
def read_file(filename=""):
with open(filename, 'r', encoding="utf-8") as f:
     read data = f.read()
     print(read_data, end=' ')
```


0. Read file

```
#!/usr/bin/python3
def say hello (name = "Guest"):
     print (" Hello " , name )
                                                               def read file(filename=""):
       say hello ("sara")
                                                               with open(filename, 'r', encoding="utf-8") as f:
           say hello()
                                                                    read data = f.read()
                                                                    print(read data, end='')
     def say_hello (name ):
     print (" Hello ", name )
        say hello ("sara")
           say hello()
```

Read file

We open the file safely using with

'r' is for reading the file

Encoding "utf-"8 ensures proper reading of characters

```
#!/usr/bin/python3
def read_file(filename=""):
with open(filename, 'r', encoding="utf-8") as f:
     read_data = f.read()
     print(read_data, end=' ')
```



1. Write to a file

We defined a function called write_file

It takes two parameters:

filename: the file name (default is

empty).

text: the text to write to the file





1. Write to a file

We open the file using with safe way

'w' means write mode:

- If the file exists, it will be overwritten.If it doesn't exist, it will be created.
- encoding="utf-"8supports characters like Arabic.
- as f gives the file a temporary name f.

We use f.write(text)
to write text to the file.
The function returns
the number of characters written.



2. Append to a file

We open the file using with safe way

• • •

'a' means append mode: adds text to the end of the file without erasing it.

We use f.write(text)
to write text to the file.
The function returns
the number of characters written.

#!/usr/bin/python3

def write_file(filename="", text=""):

with open(filename, 'a', encoding="utf-8") as f:
 return f.write(text)

