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FUTURE VISION

# UNDERSTANDING I/O FUNCTIONS IN PYTHON

$f(x)$



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# WHAT ARE I/O FUNCTIONS?

I/O (INPUT/OUTPUT) FUNCTIONS HANDLE DATA INPUT FROM USERS OR FILES AND OUTPUT DATA TO THE CONSOLE OR FILES. THEY ARE ESSENTIAL FOR INTERACTING WITH YOUR PROGRAMS!

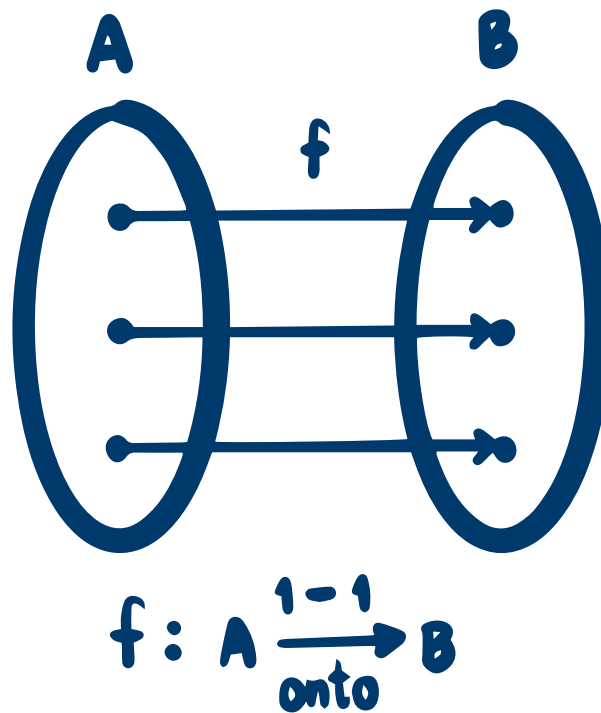


**FUNCTION()**



# READING INPUT FROM USERS

USE THE INPUT() FUNCTION TO READ USER INPUT:



```
name = input("Enter your name: ")  
print(f"Hello, {name}!")
```

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# READING FROM FILES

TO READ DATA FROM A FILE, USE THE OPEN() FUNCTION:



```
with open('file.txt', 'r') as file:  
    content = file.read()  
    print(content)
```



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# WRITING TO FILES

YOU CAN ALSO WRITE DATA TO A FILE:



```
with open('file.txt', 'w') as file:  
    file.write("Hello, World!")  
This will overwrite the file content.
```



# APPENDING TO FILES

TO ADD DATA WITHOUT OVERWRITING, USE THE APPEND MODE 'A':



```
with open('file.txt', 'a') as file:  
    file.write("\nGoodbye, World!")
```



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# READING LINES FROM FILES

READ A FILE LINE BY LINE USING READLINES():



```
with open('file.txt', 'r') as file:  
    lines = file.readlines()  
    for line in lines:  
        print(line.strip()) # Strip removes leading/trailing whitespace
```



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# HANDLING EXCEPTIONS

ALWAYS HANDLE EXCEPTIONS TO AVOID ERRORS:



```
try:  
    with open('file.txt', 'r') as file:  
        content = file.read()  
except FileNotFoundError:  
    print("File not found!")
```





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# CONCLUSION

I/O FUNCTIONS ARE CRUCIAL FOR DATA HANDLING IN PYTHON. MASTER THEM TO ENHANCE YOUR PROGRAM'S INTERACTIVITY AND FUNCTIONALITY!



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