@ Python Scripting Notes – हिंदी में (with Examples)

🔟 Python की शुरुआत (Getting Started)

◇ Python क्या है?

Python एक high-level, interpreted language है जो automation, web dev, scripting, AI सबमें use होती है।

- ◇ Python चलाने के तरीके:
 - IDLE (Python का inbuilt editor)
 - VS Code / PyCharm
 - Command Line: python script.py

2 Variables & Data Types

```
name = "Tarun"  # String
age = 21  # Integer
price = 99.99  # Float
is_admin = True  # Boolean
```

🗵 Input और Output

```
name = input("तुम्हारा नाम क्या है? ")
print("Hello,", name)
```

[4] Conditional Statements (if-else)

```
age = int(input("Age? "))
if age >= 18:
    print("Adult")
else:
    print("Minor")
```

5 Loops (for, while)

```
# For loop
for i in range(5):
```

```
print("Hello", i)

# While loop
i = 0
while i < 5:
    print(i)
    i += 1</pre>
```

6 Functions (def keyword)

```
def greet(name):
    print("Hi", name)
greet("Lucy")
```

7 Lists, Tuples, Dictionaries

```
# List
fruits = ["apple", " "banana", "mango"]
print(fruits[0])

# Tuple (immutable)
colors = ("red", "green", "blue")

# Dictionary
person = {"name": "Tarun", "age": 21}
print(person["name"])
```

8 File Handling

```
# Write to file
with open("data.txt", "w") as f:
    f.write("Hello file!")

# Read from file
with open("data.txt", "r") as f:
    print(f.read())
```

9 Error Handling (Try-Except)

```
try:
    x = 10 / 0
except ZeroDivisionError:
    print("Zero से divide नहीं कर सकते!")
```

10 Modules और Libraries

```
import math
print(math.sqrt(16))

import datetime
print(datetime.datetime.now())
```

Useful Libraries for Scripting

Library	Use
OS	File & folder handling
sys	System commands
subprocess	Terminal commands run करना
time	Time delays
json	JSON handle करना
requests	HTTP requests भेजना

Automation Script Example:

```
import os

def create_folders():
    for i in range(5):
        os.mkdir(f"Folder_{i}")
        print(f"Folder_{i} created")

create_folders()
```

% Bonus Tips

- .py फ़ाइल बना कर scripts सेव करो
- chmod +x script.py (Linux में executable बनाने के लिए)

- Shebang line: #!/usr/bin/env python3
- Scripts को schedule करने के लिए cronjob (Linux) या Task Scheduler (Windows) use करो