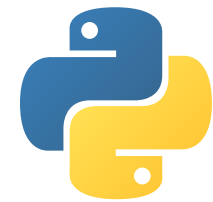# String Data type in Python 🤔❓

String ?

- String is a combination of one or more than one characters.
- The characters can be anything 0-9, A-Z, a-z, special characters, etc.
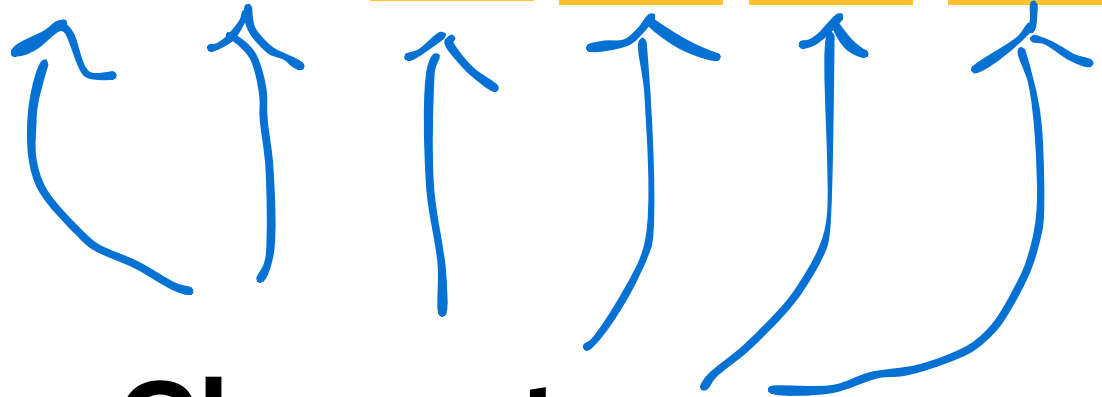- It is represented by 'str' class.

eg.

MUKESH AMBANI

String

A M B A N I

Characters

f-strings: formatted string

- Till now if we want to print the variable value in the print statement we do like:

  print("your name", variable)
- There is an another better way of doing that.
- prefix f to strings and write down the variable names inside {}

```python
name = "John Doe"
print(f"Hey, {name}! How are you?")
```

Hey, John Doe! How are you?

In texting (Conversation Example)

```python
ram = "Hey, shyam! Whatsapp ?"
shyam = "Hey bro! Doing good 😃"
print(f"ram: {ram}")
print(f"shyam: {shyam}")
```

ram: Hey, shyam! Whatsapp ?
shyam: Hey bro! Doing good 😃

2. User Input and Output

```python
# Example
# Asking the user for their favorite color
favorite_color = input("What is your favorite color? ")

# Explanation
# The input() function captures user input as a string.
print(f"Your favorite color is {favorite_color}.")
```

```
What is your favorite color? yellow
Your favorite color is yellow.
```

3. Formatting Strings

```python
# Example
name = "Alice"
age = 28

# Explanation
# Using f-strings to format and include variables within a string
intro = f"Hello, my name is {name} and I am {age} years old."
print(intro)
```

```
Hello, my name is Alice and I am 28 years old.
```

4. Storing URLs

```python
# Example
base_url = "https://www.linkedin.com/in/"
query = "bhaveshkumar-rathod"
full_url = base_url + query

# Explanation
# Constructing a URL by concatenating strings
print(f"Search URL: {full_url}")
```

Search URL: https://www.linkedin.com/in/bhaveshkumar-rathod

5. Email Content

```python
# Example
subject = "Meeting Reminder"
body = "Dear team,\n\nThis is a reminder for our meeting scheduled at 3 PM tomorrow.\n\nBest regards,\nManagement"

# Explanation
# Strings can be used to store and format the content of an email.
print(f"Subject: {subject}\n")
print(body)
```

Subject: Meeting Reminder

Dear team,

This is a reminder for our meeting scheduled at 3 PM tomorrow.

Best regards,
Management

6. Generating Reports

```python
# Example
report_title = "Monthly Sales Report"
report_body = "Total Sales: $10,000\nNumber of Transactions: 150"

# Explanation
# Strings are used to compile and present report data.
full_report = f"{report_title}\n\n{report_body}"
print(full_report)
```

```
Monthly Sales Report

Total Sales: $10,000
Number of Transactions: 150
```
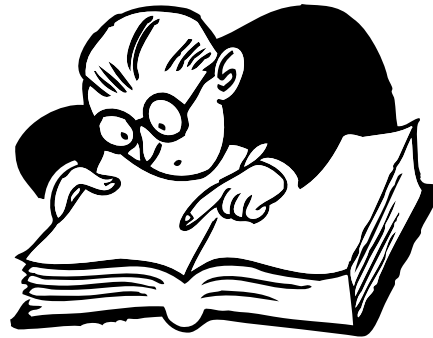
Storing Names and Addresses

```python
# Example
name = "John Doe"
address = "123 Main Street, Springfield, USA"

# Explanation
# These strings hold personal information such as names and addresses.
print(f"Name: {name}")
print(f"Address: {address}")
```

```
Name: John Doe
Address: 123 Main Street, Springfield, USA
```

Comment
Questions

Thank
You