# Introduction to Strings in Python

This presentation will guide you through the fundamentals of working with strings in Python, a versatile and widely used programming language.

```
0:1.6001:1 13.2 1
lvew2:110:50 0.9 1
  11:00 559,0 t 1.1
27-1:1 9581:8.6 0.0.
  2:1.50 1:119.0.0
```

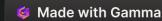
### String Concatenation

#### Combining Strings

The + operator lets you combine two or more strings into one longer string.

#### Example

a = "hello" print("Bansal, " + a) will output: Bansal, hello.



### Multiline Strings

### Spanning Lines

Use triple quotes ("' or """) to define strings that extend over multiple lines.

#### Example

multi\_line\_str = """This is a multiline string."""
print(multi\_line\_str) will output: This is a multiline
string.



## Accessing Characters

#### Indexing

Each character in a string has an index, starting from 0 for the first character.

#### Example

name = "Bansal" print(name[0]) will output: B (first
character).



### Looping through Strings

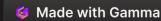
#### Character by Character

Use a for loop to iterate through each character of a string.

#### Example

name = "Bansal"

for character in name: print(character) will output: B a n s a 1.



### String Slicing

#### **Extracting Substrings**

Slicing lets you extract a portion of a string using the syntax: substring = string[start:end].

#### Example

```
abc = "Names"
print(abc[0:2])
# Output: Na (characters from index 0 to index 1)
```



### Important Notes

A:b

If a not get value then It become 0

If b not get value not get equals to length of String

#### Example

- A="Name"
- Print(a[:4)
- Print([o:])
- Print(a[:])



### Negative Slicing

#### Rules

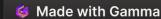
- -1 Consider as last character
- -2 Consider as second last character

#### Example

abc = "Names" print(abc[-1:-2])

#### Other Things to notice

- -3 remove last three character
- -1,-3 will show nothing



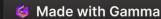
### The len() Function

#### Counting Characters

The len() function returns the length of a string, which is the number of characters it contains.

#### Example

name = "Bansal" print(len(name)) will output: 6 (the
length of the string 'Bansal').



### Key Takeaways

- Concatenation
  Use the + operator to combine strings.
- combine strings.
- Access individual characters and extract substrings.

Indexing and Slicing

2 Multiline Strings
Use triple quotes for strings spanning multiple lines.

Iterate through characters and determine string length.

Looping and len()

