

Python

Topic - String Formatting

EVERYTHING COVERED IN A SINGLE VIDEO



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Agenda of the class:

- ▶ What is String Formatting?
- ▶ Formatting with % Operator
- ▶ Using the str.format() Method
- ▶ Formatting with string literals, called f-strings



What is String Formatting?

String formatting refers to the process of creating strings with placeholders that can be replaced by values dynamically.

```
name = "Rohit"  
id = 143
```

```
print("Hi name your id is")
```

It allows us to create more readable and flexible code when working with strings.

Formatting with % Operator

The % operator allows us to format strings using the % symbol followed by a tuple of values.

Programming:

```
name = "Sachin";
```

```
age = 25;
```

```
message = "My name is %s and I am %d years old." % (name, age)
```

Output:

My name is John and I am 25 years old.

Using the str.format() Method

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The str.format() method provides more flexibility and readability than the % operator.

Programming: :

```
name = "John";  
age = 25;  
message = "My name is {} and I am {} years old.".format(name, age)
```

Output:

My name is John and I am 25 years old.

Formatting with string literals, called f-strings:

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F-strings, or Formatted String Literals, are a feature introduced in Python 3.6 that provides a concise and readable way to embed expressions directly within string literals.

They allow for easy interpolation of variables and expressions into strings.

Programming:

```
name = "John"
```

```
age = 25
```

```
message = f"My name is {name} and I am {age} years old."
```

Output:

Hello, my name is Alice and I am 30 years old.