Pass statements [pass]

Pass statements in Python essentially do nothing. They act as placeholders where a statement is syntactically required but you don't yet want to implement any code.

Example

```
for i in range(5):
    for i == 3:
        pass  # Do nothing for i = 3
    else:
        print i
```

HOW TO USE INDEXES IN FORMATTED STRINGS

f-strings (formatted string literals)

f-strings provide a clean and readable way to embed expressions directly within strings. you can use curly braces {} to insert variables - or even functions calls at their corresponding positions. Indexing works seamlessly within f-strings.

Python

```
name = "Alice"
age = 30
greeting = f"Hello {name}! You are {age} years old."
print(greeting)  # Output: Hello, Alice! You are 30 years old.
```

② str.format( ) method -

This built-in method allows you to format strings using placeholders ({ }) and positional or keyword arguments to use indexing specify the index within the curly braces.

Python Code

```
name = "Bob"
Position = 2
message = "Welcome, {} member number {} : {} . from
(Position, name)
print (message) # Output : Welcome, member number 2 :
```

---

③ Traditional String formatting (Concatenation)

While less common nowadays, you can concatenate things with variables using (+) operator. Indexing can be achieved by converting the index to a string and concatenating it

Python Code

```
fruits = [ "apple", "banana", "cherry"]
index = 1
fruits = fruits [index]  # accessing the elements at index

# Less readable Approach
chosen_fruit = " You picked the " + str (index) + " " fru

print (chosen_fruit) # output : You picked the 1st
                            fruit : banana
```

h (using f-string for concatenation)

"`You picked the {index +1}`th
fruit: {fruit}'"

Add 1 for human-readable indexing
uit

ed the 2nd fruit: banana.

th f-strings
specifier within f-strings to
are displayed.
le.

centage discount.
places.
The original price is $ {price:2f}".

rice is $ 19.99

le tax rate (as a decimal)
places and a percentage sign
Sale tax rate: {: 2%} .format
{tax-rate}

e : 7.50 %