### **Python Concatenation - Study Sheet**

#### Q: What is concatenation in Python?

A: Concatenation means joining strings together using the + operator.

```
Code:
a = "Hello"
b = "World"
print(a + " " + b)
Output:
Hello World
```

#### Q: Can you concatenate strings and numbers directly?

A: No. Convert the number to a string first.

```
Code:
age = 25
print("I am " + str(age))
Output:
I am 25
```

#### Q: Can you use variables in concatenation?

A: Yes! You can concatenate string variables.

```
Code:
first = "Python"
second = "Rocks"
print(first + " " + second)
Output:
Python Rocks
```

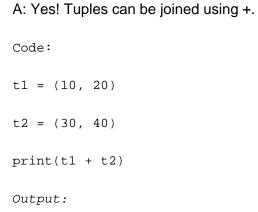
#### Q: How to concatenate strings with newline?

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A: Use \n for a new line. Code: a = "Line 1" b = "Line 2"  $print(a + "\n" + b)$ Output: Line 1 Line 2 Q: Can you repeat strings using concatenation? A: Yes, use \* to repeat a string. Code: word = "Hi " print(word \* 3) Output: Hi Hi Hi Q: Can you concatenate lists in Python? A: Yes! Use + to join two lists. Code: list1 = [1, 2, 3]list2 = [4, 5]print(list1 + list2) Output: [1, 2, 3, 4, 5]

Q: Can you concatenate tuples in Python?

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### Q: Can you mix data types when concatenating (like list + tuple)?

A: No. The types must match. You cannot add a list and a tuple.

Code:

$$[1, 2] + (3, 4)$$

(10, 20, 30, 40)

Output:

TypeError

#### Q: Can you repeat lists or tuples?

A: Yes. Use \* to repeat lists or tuples.

Code:

$$[1, 2] * 2 = [1, 2, 1, 2]$$
  
 $(5, 6) * 3 = (5, 6, 5, 6, 5, 6)$