

This screenshot shows more advanced manipulation of lists in Python using **loops, conditions, and list methods**. Let's explain everything in a simple and clear way.

✅ Looping Over a List

python

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```
for tea in tea_varities: print(tea)
```

This prints each tea in a new line:

mathematica

 Copy  Edit

```
Black  
Green  
Masala  
White
```

✅ Printing on the Same Line

python

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```
for tea in tea_varities: print(tea, end="-")
```

- `end="-"` means: instead of printing on a new line, **continue on the same line with a dash**.
- Output:

mathematica

 Copy  Edit

```
Black-Green-Masala-White-
```

✅ Checking if an Item Exists

python

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```
if "Oolong" in tea_varities: print("I have Oolong tea")
```

- This checks whether "Oolong" is in the list.
- The first time, "Oolong" is **not** in the list, so nothing is printed.

✓ Adding an Item to the List

python

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```
tea_varities.append("Oolong")
```

- Adds "Oolong" to the **end** of the list.
- New list:

python

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```
['Black', 'Green', 'Masala', 'White', 'Oolong']
```

Now the condition:

python

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```
if "Oolong" in tea_varities: print("I have Oolong tea")
```

✓ Outputs:

css

 Copy  Edit

```
I have Oolong tea
```

✓ Removing an Item

python

 Copy  Edit

```
tea_varities.pop()
```

- This removes and returns the **last item** from the list (like undo).
- "Oolong" is removed.
- New list:

```
python
```

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```
['Black', 'Green', 'Masala', 'White']
```



Summary of New Concepts

Operation	Example Code	What It Does
Loop through list	<code>for tea in tea_varities:</code>	Goes through each element
Print in one line	<code>print(tea, end="-")</code>	Avoids new lines
Check if item is in list	<code>"Oolong" in tea_varities</code>	Returns True or False
Add to end of list	<code>tea_varities.append("Oolong")</code>	Adds item at the end
Remove last item	<code>tea_varities.pop()</code>	Removes and returns the last item