

LIST IN PYTHON

By Sudhanshi

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In [1]: Food_Items=["bread", "Juice", "Butter", "Salad", "Curd", "Watermelon", "Tea", "Cookies", "Almonds", "Fruit", "Milk", "Cashew"]

In [2]: print(Food_Items[0:3])

['bread', 'Juice', 'Butter']

In [3]: print(Food_Items[3:6])

['Salad', 'Curd', 'Watermelon']

In [4]: print(Food_Items[6:9])

['Tea', 'Cookies', 'Almonds']

In [5]: print(Food_Items[9:])

['Fruit', 'Milk', 'Cashew']

In [6]: import pandas as pd

In [7]: d1 = {'Breakfast': ["Bread", "Juice", "Butter"], 'Lunch': ["Salad", "Brown Rice", "Juice"], 'Snacks': ["Tea", "Cookies", "Almonds"], 'Dinner': ["Fruits", "Milk", "Almonds"]}
df1 = pd.DataFrame(data=d1)
df1

Out[7]:
```

	Breakfast	Lunch	Snacks	Dinner
0	Bread	Salad	Tea	Fruits
1	Juice	Brown Rice	Cookies	Milk
2	Butter	Juice	Almonds	Almonds

```
In [8]: List = ["Amrita", "has", 3, "Jeans", "and", 5, "Jackets"]
print(List)

['Amrita', 'has', 3, 'Jeans', 'and', 5, 'Jackets']

In [9]: Name=["Rohit", "Sudhanshi", "Harsh", "Hashmeet", "Ramdas"]

In [10]: Age=[26, 22, 28, 24, 34]

In [11]: Var=(Name, Age)
print(Var)

[('Rohit', 'Sudhanshi', 'Harsh', 'Hashmeet', 'Ramdas'), (26, 22, 28, 24, 34)]

In [12]: A= "Deutsch"
B="English"
C="Hindi"

In [13]: print('I know'+ " " + A + " " + B + " " + C + " "+"Language".format (A, "", B, " " , C ))

I know Deutsch,English,Hindi Language
```

Methods of List

By Sudhanshi

```
In [2]: Value= [23, 45, 68, 92, 104, 113, 123]

In [3]: #Append

(Value.append("Hello"))
print(Value)

[23, 45, 68, 92, 104, 113, 123, 'Hello']

In [4]: #Insert

(Value.insert(3, 75))
print(Value)

[23, 45, 68, 75, 92, 104, 113, 123, 'Hello']

In [5]: #Remove

(Value.remove(113))
print(Value)

[23, 45, 68, 75, 92, 104, 123, 'Hello']

In [6]: #Extend

(Value.extend("Hello", 123))
print(Value)

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TypeError                                Traceback (most recent call last)
<ipython-input-6-ce42ea43c4d6> in <module>
      1 #Extend
      2
----> 3 (Value.extend("Hello", 123))
      4 print(Value)

TypeError: extend() takes exactly one argument (2 given)

In [7]: (Value.extend("Hello"))
print(Value)

[23, 45, 68, 75, 92, 104, 123, 'Hello', 'H', 'e', 'l', 'l', 'o']

In [43]: len(Value)

Out[43]: 13

In [44]: print(Value)

[23, 45, 68, 75, 92, 104, 123, 'Hello', 'H', 'e', 'l', 'l', 'o']

In [46]: #Pop

(Value.pop(12))
print(Value)

[23, 45, 68, 75, 92, 104, 123, 'Hello', 'H', 'e', 'l', 'l']

In [47]: #Remove

Value.remove(92)
print(Value)

[23, 45, 68, 75, 104, 123, 'Hello', 'H', 'e', 'l', 'l']

In [48]: #Clear removes all items from the list.It is equivalent to delete

del Value [7:]
print(Value)

[23, 45, 68, 75, 104, 123, 'Hello']

In [50]: Value.clear()
print(Value)

[]

In [52]: List="Python is one of the most dynamic programming language"

In [53]: print(List.count("on"))

2

In [56]: list=[12, 36, 24, 48, 72, 60, 84, 108, 96]

In [58]: list.sort()
print(list)

[12, 24, 36, 48, 60, 72, 84, 96, 108]

In [59]: max(list)

Out[59]: 108

In [60]: min(list)

Out[60]: 12

In [61]: sum(list)

Out[61]: 540
```