

Q Demonstrate python code to explain List Comprehension



List comprehension offers a shorter syntax when you want to create a new list based on the values of an existing list

Ex.

based on a list of fruits, you want a new list, containing only the fruits with the letter 'a' in their name.

```
fruits = ["apple", "banana", "Cherry", "kiwi", "mango"]  
newlist = [x for x in fruits if "a" in x]
```

```
print(newlist)
```

without comprehension :

```
for x in fruits :
```

```
    if "a" in x:
```

```
        newlist.append(x)
```

```
print(newlist)
```