## **Python List Interview Questions**

### **Beginner Level Questions**

Beginner	Level
Dogmino	

1. How do you create an empty list in Python?

```
# Two ways:
empty_list = []
empty_list = list()
```

2. How do you add an element to the end of a list?

```
my_list.append(element)
```

3. How do you concatenate two lists?

```
combined = list1 + list2
# or
list1.extend(list2)
```

4. How do you access the last element of a list?

```
last = my_list[-1]
```

5. How do you reverse a list?

```
reversed_list = my_list[::-1] # Creates new list
my_list.reverse() # In-place reversal
```

#### **Intermediate Level Questions**

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1. Explain list comprehensions with an example.

```
# Create list of squares
squares = [x**2 for x in range(10)]
```

# **Python List Interview Questions**

2. How would you remove all occurrences of a value from a list?

```
my_list = [x for x in my_list if x != value]
# or
while value in my_list:
    my_list.remove(value)
```

- 3. What's the difference between list.sort() and sorted(list)?
  - list.sort() sorts the list in-place and returns None
  - sorted(list) returns a new sorted list, original remains unchanged
- 4. How do you create a shallow copy of a list?

```
new_list = old_list[:]
# or
new_list = list(old_list)
```

5. How do you find the index of an item in a list?

index = my\_list.index(value) # Raises ValueError if not found