

## **Python List Interview Questions**

- 1. What is a Python list?**
- 2. How do you create an empty list in Python?**
- 3. How do you create a list with initial values in Python?**
- 4. How do you access elements in a list?**
- 5. How do you add an element to the end of a list?**
- 6. How do you add an element at a specific position in a list?**
- 7. How do you remove an element from a list?**
- 8. How do you check if an element is in a list?**
- 9. How do you find the length of a list?**
- 10. How do you concatenate two lists?**
- 11. How do you iterate over a list?**
- 12. How do you reverse a list?**
- 13. How do you sort a list?**
- 14. How do you clear a list elements?**
- 15. What are differences between `append()` and `extend()` methods in list?**
- 16. What are differences between `remove()` and `pop()` methods in list?**
- 17. What are differences between `index()` and `insert()` methods in list?**
- 18. Is list a Mutable or Immutable object ? Why ?**

19. How to repeat a list object multiple times ?

20. How to find the occurrences of given value in a list object ?

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1. What is a Python list?

- A list in Python is a collection of elements which is ordered and changeable. It allows duplicate members.

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

```
my_list = []
```

3. How do you create a list with initial values in Python?

```
my_list = [1, 2, 3, 4, 5]
```

4. How do you access elements in a list?

- an access elements in a list using indexing. Indexing starts from 0.
- For example,  
`my_list[0]` # accesses the first element.

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

- u can use the `append()` method.  
`my_list.append(6)`

6. How do you add an element at a specific position in a list?

- u can use the `insert()` method.  
`my_list.insert(2, 7)` # Insert 7 at index 2

7. How do you remove an element from a list?

- ou can use the `remove()` method if you know the value of the element you want to remove.  
`my_list.remove(3)` # Removes the first occurrence of 3
- You can use the `pop()` method if you want to remove an element by its index.  
`my_list.pop(2)` # Removes the element at index 2

## 8. How do you check if an element is in a list?

- can use the `in` keyword.  
if 5 in my\_list:  
    print("5 is in the list")

## 9. How do you find the length of a list?

- u can use the `len()` function.  
length = len(my\_list)

## 10. How do you concatenate two lists?

- can use the `+` operator.  
new\_list = my\_list + [8, 9, 10]

## 11. How do you iterate over a list?

- u can use a `for` loop.  
for item in my\_list:  
    print(item)

## 12. How do you reverse a list?

- can use the `reverse()` method.  
my\_list.reverse()

## 13. How do you sort a list?

- the `sort()` method.  
my\_list.sort()