

PYTHON LIST FUNCTION

Q1. What is the syntax for adding an element to a list in Python?

```
In [4]: a = [1,2,3,4,'Tarushi', True, 89.76]
```

```
In [5]: type(a)
```

```
Out[5]: list
```

Q2. What is the difference between remove() and pop() functions in Python?

```
In [2]: s = [2,3,4,5,78.98, 8+9j, 'India', True]
```

```
In [3]: #Remove deletes the given value
```

```
s.remove(4)
s
```

```
Out[3]: [2, 3, 5, 78.98, (8+9j), 'India', True]
```

```
In [6]: #POP deletes the last value by default if no value is given
```

```
s.pop()
s
```

```
Out[6]: [2, 3, 5, 78.98, (8+9j), 'India']
```

```
In [7]: #If value is given in pop then it removes the element from the given index
```

```
s.pop(2)
s
```

```
Out[7]: [2, 3, 78.98, (8+9j), 'India']
```

Q3. Write a Python code to sort a list in descending order.

```
In [8]: x = [67, 76, 43, 90, 23, 100, 267]
```

```
In [9]: x.sort(reverse=True)
x
```

```
Out[9]: [267, 100, 90, 76, 67, 43, 23]
```

Q4. Write a Python code to count the number of occurrences of an element in a list.

```
In [10]: y = [23, 45, 89, 65, 87, 13, 56, 'a', 23, 'India', 89, 45]
```

```
In [11]: y.count(89)
```

```
Out[11]: 2
```

Q5. Write a Python code to reverse a list.

```
In [ ]: y = [23, 45, 89, 65, 87, 13, 56, 'a', 23, 'India', 89, 45]
```

```
In [12]: y[::-1]
```

```
Out[12]: [45, 89, 'India', 23, 'a', 56, 13, 87, 65, 89, 45, 23]
```