How to Remove Duplicates From a Python List

In this tutorial, we will learn how to remove duplicates from a Python list.

Using dict.fromKeys()

```
In [1]: # Remove duplicates from a list using dict.fromkeys()

# List with duplicates
mylist = ["a", "b", "a", "c", "c"]

# Create a dictionary from the list items. This will automatically remove
# Then, convert the dictionary back to a list.
mylist = list(dict.fromkeys(mylist))

# This method has the same order as the original one.
print(mylist)
```

['a', 'b', 'c']

Using set()

```
In [2]: # Remove duplicates from a list using set()

# List with duplicates
mylist = ["a", "b", "a", "c", "c"]

# Convert the list to a set. This will automatically remove any duplicate
# Then, convert the set back to a list.
mylist = list(set(mylist))

# This method does not preserve the order of the original list.
print(mylist)
```

['b', 'c', 'a']

Using list comprehension

```
In [5]: # Remove duplicates from a list using list comprehension

# List with duplicates
mylist = ["a", "b", "a", "c", "c"]

# Create a new list with unique elements by checking if the element is not mylist = [x for i, x in enumerate(mylist) if i == mylist.index(x)]

# This method has the same order as the original one.
print(mylist)
```

```
['a', 'b', 'c']
```

Using a loop

```
In [6]: # Remove duplicates from a list using a loop

# List with duplicates
mylist = ["a", "b", "a", "c", "c"]

# Create a new list and add elements to it only if they are not already
newlist = []
for x in mylist:
    if x not in newlist:
        newlist.append(x)

# This method has the same order as the original one.
print(newlist)

['a', 'b', 'c']
Arsalan
In []:
```

How to reverse a string in Python

There is no built-in function to reverse a String in Python.

using slicing

```
In [1]: # Reverse a string in Python

txt = "Hello World"
 print(txt[::-1])
```

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using a loop

```
In [2]: # Reverse a string in Python

txt = "Hello World"
    reversed_txt = ""
    for i in txt:
        reversed_txt = i + reversed_txt
    print(reversed_txt)
```

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```
In []:
```

Adding two numbers

Using + operator

```
In [1]:
    a = 10
    b = 20
    print(a + b)
```

Using sum function

```
In [2]:
    a = 10
    b = 20
    print(sum([a, b]))
30
```

taking in users input

```
In [5]:    a = int(input("Enter first number: "))
    b = int(input("Enter second number: "))
    print(a,b,a + b)

10 20 30
    Arsalan
In []:
```