

# EXPERIMENT-01(a)

classmate

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AIM: Write a python program to create a list & to perform : insert(), remove(), update(), pop(), append(), len(), clear().

## THEORY WITH PROGRAMS

A list in python program is mutable, ordered collection that allows duplicate values. Various built in methods help manipulate lists effeciently.

(1) Create a list :

```
#creating a list  
my_list = [10, 20, 30, 40, 50]  
# print the list  
print(my_list)
```

S. OUTPUT: [10, 20, 30, 40, 50]

(2) Insert : Insert a new element in my list.

```
my_list.insert(2, 25)  
print(my_list)
```

S. OUTPUT: [10, 20, 25, 30, 40, 50]

(3) Append : Add an element to last position of the list.

```
my_list.append(60)
print(my_list)
```

S. OUTPUT: [10, 20, 25, ~~30~~ 40, 50, 60]

(4) Remove : Remove an element from the list.

```
my_list.remove(30)
print(my_list)
```

S. OUTPUT: [10, 20, 25, 40, 50, 60]

(5) len : Find the length of the list.

```
len(my_list)
```

SAMPLE OUTPUT: 6

(6) pop : Remove & returns elements at a specified index.

```
pop my_list.pop()
```

SAMPLE OUTPUT: [10, 20, 25, 40, 50]

(7) clear: Remove all elements from the list.

```
my_list.clear()  
printt(my_list)
```

SAMPLE OUTPUT: `[]`

(8) del: Delete an element at a specified index

```
del my_list[2]  
print(my_list)
```

SAMPLE OUTPUT: `[10, 20, 40, 50]`