| ~ | | | |
|------------|----------|---|--|
|) - | | 1 1 St. M. | mente allem |
| N. | • | List is a collection of objects which can be of diffe | HINT data types |
| S | | list is created using [] or using list (ommand | |
| V | 73.77 | are seperated using 612. | mater 1 and |
| S | • | Elements in list can occur more than once | no dina 43 |
| 3 | • | List are mutable a therefore can be modified a | henever required |
| S | Method | s in list (List one order changable. | allow |
| | | duplica | ate value. |
| | Operator | Description. | Syntax |
| | append | Add an item to a list | 11. append (x) |
| 3 | extend | Add items of a list to other list | 17 extend (12) |
| | Insert | Insert an item in a list at a given position. | 11. insert (n,x) |
| 3 | remove | Remove the first occurrence of an eliment | 11. remove (X) |
| 5 | pop | Remove the item of a given position. | |
| 3 - | | Romoves last element if position is not specified | 17. popen) |
|) | Clear | Removes all stems from the disk | 11. clear () |
|) | index | Returns the position of the element in the list | 11. index(X) |
| - | Count | Return the number of item times an element | 21 (31) 31 111 |
| | 0 | occurrin the 1914 | 11. (vunt (x) |
| | Sort | Sort the items of the list | 11. Sort () |
| 3 | - copy | (related the copy of the list | 17. (obd () |
| | | | THE RESIDENCE OF THE PARTY OF T |

```
List

#(1). Replace element of list: Banana => apple

fruits = [ "Mango", "Banana", " cherry", " Grapes"]

Fruits[1] = "Apple"

Print cfruits)

['Mango', 'Apple', 'cherry', 'Grapes']
```

```
Fruits = ["Mango", "Banana", "Chemy", "Emapes"]

Fruits append ("Apple")

Print (Fruits)

['Mango', 'Banana', 'Chemy', 'Grapes', 'Apple']
```

```
Fruits = ["Mango", "Banana", "therry", "Grapes"]

Fruits extend (["Apple", "Kiwi"])

Print (Fruits)

===> [Mango', 'Banana', 'therry', 'Grapes', 'Apple', 'kiwi']
```

```
#(v). insert element to list

fruits = ["Mango", "Banana", "chemy", "Crapes"]

fruits.insert (1, "Apple")

Print (Fruits)

==> ['Mango', 'Apple', 'Banana', 'chemy', 'Grapes']
```

```
#5 remove element to list
fruits = ["Mango", "Banana", "cherry", "Grapes"]
fruits.remove ("Banana")
Print (Pruits)
==> ["Mango", 'cherry', 'Grapes']
```

```
#6. pop element to list

fruits = ["mango", "Banana", "cherry", "Grapes"]

my fruits = fruits. pop(2)

mint (my-fruits)

==> cherry
```

```
a print(fruits)
           ['Hango', 'Apple', 'Cherry', 'Grapes']
In [30]: | F-2, Appends firment to list | fruits-["Hungo", "Banana", "Cherry", "Grapes"] | fruits.append("Apple")
            4 print(fruits)
           ['Mango', 'Banana', 'Cherry', 'Grapes', 'Apple']
In [31]: 1 # 3. Extend element to Cist
            # fruits-["Mango", "Banana", "Cherry", "Grapes"]
# fruits.extend(["Apple", "Kiwi"])
            # print(fruits)
           ['Hango', 'Banana', 'Cherry', 'Grapes', 'Apple', 'Kiwi']
# print(fruits)
           ['Hango', 'Apple', 'Banana', 'Cherry', 'Grapes']
In [33]: | F S. remove element to List
| I fruits-["Hango", "Banana", "Cherry", "Grapes"]
| fruits.remove("Banana")
            | print(fruits)
          ['Hango', 'Cherry', 'Grapes']
In [35]: 1 # 6. pap element to List

1 fruits-["Mango", "Banana", "Cherry", "Grapes"]

3 my_fruits = fruits.pop(2)
            # print(my_fruits)
           Chenny
```