In [4]:
```
# write a program which takes single input from user contaning first name,last name

info = input("enter first_name,last_name,age: ")
info = info.split(",")                              # create a list using split met
print("first name is " + info[0])                   #index 0 is first_name
print("last name is " + info[1])                    # index 1 is last_name
print(info[0] + " is " + info[2] + " years old")    #index 2 is age
```

```
enter first_name,last_name,age: Mohit,Sharma,32
first name is Mohit
last name is Sharma
Mohit is 32 years old
```

In [12]:
```
# combined the 2 list and diplay the same without using extend method

list1 = [1,3,4]
list2 = [2,4,6]
combined_list = list1 + list2
print(combined_list)
```

```
[1, 3, 4, 2, 4, 6]
```

In [22]:
```
# diplay a new list which contains only odd position index values from list.

# LIST SLICING

list1=[1,2,3,4,5,6,7,8]

# list1[1::2] is slice operation that starts from index 1 and takes every 2nd eleme
list2 = list1[1::2]

print(list2)
```

```
[2, 4, 6, 8]
```

In [29]:
```
# take a ipl team name as input from user and display a list of all elements from t

ipl= ['CSK','MI','KKR','LSG','PBKS']
team_name = input("enter team name: ")
if team_name in ipl:
    starting_index = ipl.index(team_name) #find the index of the team name from ipl
    list_of_elements = ipl[starting_index:] #Slice the list from the index of the t
    print(list_of_elements)
else:
    print("Team name is not in the list")
```

```
enter team name: KKR
['KKR', 'LSG', 'PBKS']
```

In [34]:
```
# take a ipl team name as input from user and display a list of all elements except

ipl1 = ['CSK','MI','KKR','LSG','PBKS']
team_name = input("enter team name: ")
if team_name in ipl1:
    start_index = ipl1.index(team_name) # find the index of the element
    ipl1.pop(start_index) #remove the element from the list
    print(ipl1)
else:
    print("Team name is not in the list")
```

```
enter team name: MI
['CSK', 'KKR', 'LSG', 'PBKS']
```

In [38]:
```
'''take a user input contains 2 comma seprated values index,new_team.
replace the index element of list with new value and display the same'''

ipl= ['CSK','MI','KKR','LSG','PBKS']
values = input("enter index,team : ")
input_list = values.split(",") #convert the input into list
v1 = int(input_list[0]) #assign the index number into variable v1 also convert into
v2 = input_list[1] #assign the new team name into variable v2
ipl[v1] = v2 #replace the index value with the new team name
print(ipl)
```

```
enter index,team : 3,GT
['CSK', 'MI', 'KKR', 'GT', 'PBKS']
```

In [41]:
```
# take ipl team name as user input. display True if the team exists else display Fa

ipl= ['CSK','MI','KKR','LSG','PBKS']
team_name = input("enter team name: ")
team_name in ipl #check whether team name exists
```

```
enter team name: SRH
```

Out[41]:
```
False
```

In [52]:
```
'''take a user input contains 2 comma seprated values index,new_team . Add the new
Display the old list , new list,length of original and new list'''

ipl = ['CSK', 'MI', 'KKR', 'LSG', 'PBKS']

# Take input from the user
new_team = input("Enter the index and new team separated by a comma (e.g., 2,RCB):

# Split the input to get the index and the new team name
n1 = new_team.split(",")

# Create a copy of the original list
ipl_copy = ipl.copy()

# Insert the new team at the specified index
ipl_copy.insert(int(n1[0]), n1[1])

# Display the old list, new list, and their lengths
print("Old list:", ipl, "and length", len(ipl))
print("New list:", ipl_copy, "and length", len(ipl_copy))
```

```
Enter the index and new team separated by a comma (e.g., 2,RCB): 4,GT
Old list: ['CSK', 'MI', 'KKR', 'LSG', 'PBKS'] and length 5
New list: ['CSK', 'MI', 'KKR', 'LSG', 'GT', 'PBKS'] and length 6
```

In [ ]:
```

```