Suman_Mondal_Assignment_3

June 7, 2023

[4]:
```python
# Q01. WAP to Count the No. of elements are even in a List

arr = [1, 2, 3, 4, 5, 6, 7, 8]
even_count = 0
for num in arr:
    if num % 2 == 0:
        even_count += 1

print("Even numbers in the list: ", even_count)
```

Even numbers in the list: 4

[6]:
```python
# Q02. WAP to print all non zero elements left side in a list and all zeros in
 →right side and all non zeros on the left side

arr = [1, 0, 2, 0, 3, 0, 0, 5, 6, 7, 8, 0, 9, 10, 0]
arr_new = []
for i in arr:
    if(i > 0):
        arr_new.append(i)
for i in arr:
    if(i == 0):
        arr_new.append(i)
print(arr_new)
```

[1, 2, 3, 5, 6, 7, 8, 9, 10, 0, 0, 0, 0, 0, 0]

[7]:
```python
# Q03. WAP to find the maximum element of a list

arr = [12, 43, 56, 0, -2, 56, 47, 89]
print (max(arr))
```

89

[9]:
```python
# Q04. WAP to find the frequency of character in a list

arr = [1, 0, 2, 0, 3, 0, 0, 5, 6, 11]
count = 0
```

```
num = int(input("Enter the number you want to check its frequency : "))
for i in arr:
    if(num == i):
        count += 1
print("Frequency of the element",num ,'is:', count)
```

Enter the number you want to check its frequency : 0
Frequency of the element 0 is: 4

[10]:
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# Q05. WAP to search a element from a list

arr = [34, 5, 4, 0, -56, 90, 98, 587, 23, 59, 97, 102, -34]
num =  int(input("Enter the number you want to search: "))
if num in arr:
    print ("Item found at position", arr.index(num)+1)
else:
    print ("Item NOT FOUND!!")
```

Enter the number you want to search: 98
Item found at position 7

[11]:
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# Q06. WAP to sort the list of elemets

arr = [1, 4, 2, 8, 5, 7]
arr.sort()
print(arr)
```

[1, 2, 4, 5, 7, 8]

[13]:
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# Q07. WAP to delete all duplicate element from the list

arr = [1, 2, 4, 2, 1, 4, 5]
print("Original List: ", arr)
res = [*set(arr)]
print("List after removing duplicate elements: ", res)
```

Original List: [1, 2, 4, 2, 1, 4, 5]
List after removing duplicate elements: [1, 2, 4, 5]

[14]:
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# Q08. WAP to find the common elements between two list and append the element␣
 ↪into the third list

arr1 = [1,2,3,4,5]
arr2 = [4,5,6,7,8]
arr3 = []
for i in arr1:
    if i in arr2:
        arr3.append(i)
```

```
print(arr3)
```

[4, 5]

[15]:
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# Q09. WAP to count the no of pairs are even

tup = ((2, 4), (1, 3), (5, 6), (8, 10))
count = 0
for i, j in tup:
    if(i % 2 == 0 and j % 2 == 0):
        count += 1
print('Total pairs such that both are even =', count)
```

Total pairs such that both are even = 2

[17]:
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# Q10. WAP to sorting the element in asscending order according the 2nd
↪position element of tuple

def last(n):
    return n[-1]
def sort(tuples):
    return sorted(tuples, key = last)
arr = [(1, 2), (2, 1), (3, 4), (5, 3)]
print("Sorted: ")
print(sort(arr))
```

Sorted:
[(2, 1), (1, 2), (5, 3), (3, 4)]

[19]:
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# Q11. WAP to print the list after removing all even nos.

arr = [2, 3, 4, 7, 9, 11, 14]
for i in arr:
    if(i % 2 == 0):
        arr.remove(i)
print ("list after removing EVEN numbers:", arr)
```

list after removing EVEN numbers: [3, 7, 9, 11]

[23]:
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# Q12. WAP to remove all occurences of an element a list

mylist = [1 , 2, 3, 4, 2, 2, 3]
value_to_remove = 2
mylist = [i for i in mylist if i != value_to_remove]
print(mylist)
```

[1, 3, 4, 3]

3

`[ ]:`