```
# 04
a=[12,23,4,5,87,98,22]
max(a)
98
my list=[12,23,4,5,87,98,22]
my_list[0], my_list[-1]=my_list[-1], my_list[0]
# swapp_list=swap_first_last(my_list)
print(my_list)
[22, 23, 4, 5, 87, 98, 12]
x=[2,3,5,76,98,7,62]
temp=x[2]
x[2]=x[5]
x[5]=temp
print(x)
[2, 3, 7, 76, 98, 5, 62]
z=[2,3,5,76,98,7,62]
z.reverse()
print(z)
[62, 7, 98, 76, 5, 3, 2]
z=[2,7,5,76,98,7,62,8,31,7]
z.count(7)
3
z=[2,7,5,76,98,7,62,8,31,7]
y=sum(a)
print(y)
251
z=[2,7,11,98,5,62,8,31]
for i in z:
    print(i**2)
49
5776
9604
25
3844
64
961
```

```
z=[2,7,11,98,5,62,8,31]
y = len(z)
print(y)
my_list = [101,978,454, 201, 301,323,687, 401, 501]
smallest = my list[0]
largest = my_list[0]
for n in my list:
    if n < smallest:</pre>
        smallest = n
    if n > largest:
        largest = n
print("Smallest number:", smallest)
print("Largest number:", largest)
Smallest number: 101
Largest number: 978
radius= int(input("Enter a radius of circle:"))
pi=3.14
area=pi*radius*radius
print(f"The area of the circle is: {area}")
Enter a radius of circle: 5
The area of the circle is: 78.5
even no=[]
odd no=[]
for i in range(0,151):
    if i % 2 == 1:
        odd_no .append(i)
    else:
        even no.append(i)
print("Odd number Between:",odd no)
print("Even number Between:",even_no)
Odd number Between: [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25,
27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59,
61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93,
95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121,
123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149]
Even number Between: [0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24,
26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58,
60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92,
```

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94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120,
122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148,
150]
my list=[1,23,32,64,69,78,98,90,80,94,101,86,54,34,23,13,19,30]
even count=0
odd count=0
for i in my list:
    if i % 2 == 1:
        odd count+=1
    else:
        even count+=1
print("odd No.count:",odd count)
print("even No count:",even_count)
odd No.count: 7
even No count: 11
div by 4=[]
div by 6=[]
div by 8=[]
div by 10=[]
div by 3=[]
div_by_5=[]
div by_7=[]
div_by_9=[]
for i in range(0,151+1):
    if i % 4==0:
        div_by_4.append(i)
    if i % 6 == 0:
        div by 6.append(i)
    if i % 8==0:
        div_by_8.append(i)
    if i % 10 ==0:
        div by 10.append(i)
    if i % 3==0:
        div by 3.append(i)
    if i % 5==0:
        div by 5.append(i)
    if i % \overline{7}==\overline{0}:
        div by 7.append(i)
    if i % 9==0:
        div by 9.append(i)
print("Number of divisible by 4:",div by 4)
print()
print("Number of divisible by 6:", div by 6)
print()
print("Number of divisible by 8:",div by 8)
print()
```

```
print("Number of divisible by 10:", div by 10)
print()
print("Number of divisible by 3:",div_by_3)
print()
print("Number of divisible by 5:",div by 5)
print()
print("Number of divisible by 7:", div by 7)
print()
print("Number of divisible by 9:",div by 9)
Number of divisible by 4: [0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40,
44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108,
112, 116, 120, 124, 128, 132, 136, 140, 144, 148]
Number of divisible by 6: [0, 6, 12, 18, 24, 30, 36, 42, 48, 54, 60,
66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150]
Number of divisible by 8: [0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80,
88, 96, 104, 112, 120, 128, 136, 144]
Number of divisible by 10: [0, 10, 20, 30, 40, 50, 60, 70, 80, 90,
100, 110, 120, 130, 140, 150]
Number of divisible by 3: [0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33,
36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84,
87, 90, 93, 96, 99, 102, 105, 108, 111, 114, 117, 120, 123, 126, 129,
132, 135, 138, 141, 144, 147, 150]
Number of divisible by 5: [0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50,
55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130,
135, 140, 145, 150]
Number of divisible by 7: [0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70,
77, 84, 91, 98, 105, 112, 119, 126, 133, 140, 147]
Number of divisible by 9: [0, 9, 18, 27, 36, 45, 54, 63, 72, 81, 90,
99, 108, 117, 126, 135, 144]
My list=[11, "Tableau", 23,89.3, "Power bi ",53.62, "Excel",44,69.17]
integers =[]
strings=[]
floats=[]
for i in My_list:
    if isinstance(i,int):
        integers.append(i)
    elif isinstance(i,str):
        strings.append(i)
    else:
        floats.append(i)
```

```
print("Integers:",integers)
print("String:",strings)
print("Floats:", floats)
Integers: [11, 23, 44]
String: ['Tableau', 'Power bi ', 'Excel']
Floats: [89.3, 53.62, 69.17]
list1=[2,65,77,80]
list2=[65,8,70,98]
list1.extend(list2)
print("List 1:",list1)
List 1: [2, 65, 77, 80, 65, 8, 70, 98]
list1=[2,65,43,57,98]
list1.sort(reverse=True)
list2=list1[2]
print(list2)
57
'''lst=[2,2,2,6,6,6,6,5,5,5,1,3,3,3,3]
element=set(lst)
frequency=[]
for i in element:
    #frequency(i)==frequency
print()'''
'lst=[2,2,2,6,6,6,6,5,5,5,1,3,3,3,3]\nelement=set(lst)\nfrequency=[]\
nfor i in element:\n #frequency(i)==frequency\nprint()'
a = [23, 4, 54, 56, 7, 90, 44, 58, 77, 98]
length=len(a)
print(length)
10
my list=[]
if len(my_list)==0:
    print("list is Empty")
else:
    print("list is not Empty")
list is Empty
lst1=[23,34,65,87]
lst2=[21,46,97,87]
```

```
a=lst1+lst2
print(a)
[23, 34, 65, 87, 21, 46, 97, 87]
a=[1,2,2,3,3,4,1,2,1,5]
occurrences = a.count(2)
print(occurrences)
my_list = [[1, 2], [3, 4], [5, 6]]
                     # convert list of list into single list.
flattened_list = []
for lst in my_list :
    for item in lst:
        flattened_list.append(item)
print(flattened_list)
[1, 2, 3, 4, 5, 6]
lst=[11,33,55]
result = int("".join(map(str, lst)))
print(result)
113355
```