

Loop question with solution

1. WAP to give list of all factors for any number.

```
n=int(input("Enter any no:"))
factors = []
for i in range(1,n+1):
    if n%i==0:
        factors.append(i)
print("Factors are :",factors)
```

2. WAP to arrange all items from list in ascending order.

```
l = [64, 34, 25, 12, 22, 11, 90, 5]
n = len(l)
for i in range(n-1):
    for j in range(n-i-1):
        if l[j] > l[j+1]:
            l[j], l[j+1] = l[j+1], l[j]
print(l)
```

3. WAP to arrange all items from list in descending order.

```
l = [64, 34, 25, 12, 22, 11, 90, 5]
n = len(l)
for i in range(n-1):
    for j in range(n-i-1):
        if l[j] < l[j+1]:
            l[j], l[j+1] = l[j+1], l[j]
print(l)
```

4. WAP to find maximum digit in given list.

```
l = [2,4,9,3,5]
max = l[0]
for i in range(len(l)-1):
    if l[i]>l[i+1]:
        max = l[i]
        l[i],l[i+1]=l[i+1],l[i]
    else:
        max=l[i+1]
print(max)
```

5. WAP to find minimum digit in given list.

```

l = [2,4,9,3,5]
min = l[0]
for i in range(len(l)-1):
    if l[i]<l[i+1]:
        min = l[i]
        l[i],l[i+1]=l[i+1],l[i]
    else:
        min=l[i+1]
print(min)

```

6. WAP to check given number is either perfect number or not.

```

n=int(input("Enter any no:"))
sum = 0
for i in range(1,n):
    if n%i==0:
        sum=sum+i
if n==sum:
    print(f'given number {n} is perfect number')
else:
    print(f'given number {n} is not a perfect number')

```

7. WAP to arrange all even and odd no at a place.

```

# i/p :- [2,1,3,8,4,8,5]
# o/p :- [2,8,4,8,1,3,5]
l = [2,1,3,8,4,8,5]
l1=[]
for i in l:
    if i %2==0:
        l1.append(i)
for i in l:
    if i%2 !=0:
        l1.append(i)
print(l1)

```

8. WAP to arrange all zeroes at the end.

```

# i/p :- [2,0,3,0,1,0,5]
# o/p :- [2,3,1,5,0,0,0]
l = [2,0,3,0,1,0,5] # [2,3,1,5,0,0,0]
l1=[]
for i in l:
    if i !=0:
        l1.append(i)

```

```
n = len(l)-len(l1)
for i in range(n):
    l1.append(0)
print(l1)
```

9. WAP to arrange below mention format.

```
# i/p :- l = [1, 1, 1, 2, 3, 4, 3, 4, 2, 5, 6, 5, 7]
# o/p :- {1: 3, 2: 2, 3: 2, 4: 2, 5: 2, 6: 1, 7: 1}
l = [1, 1, 1, 2, 3, 4, 3, 4, 2, 5, 6, 5, 7]
output_dict = {}

for item in l:
    if item in output_dict:
        output_dict[item] += 1
    else:
        output_dict[item] = 1

print(output_dict)
```