1) Print odd and even indexed names

```
# """From the previous list, print the odd names on the first line and the even names on the second line."""

"""friends = ["Osama", "Ahmed", "Sayed", "Ali", "Mahmoud"]

# Needed Output

# "Osama", "Sayed", "Mahmoud"

# "Ahmed", "Ali"""""
```

---

2) Find position of 'z' in "Elzero"

```
"""name = "Elzero"

# Needed Output

# 2"""
```

---

3) Print the set of names 2, 3, and 4 on the first line, then the last name and the one before it on the second line, knowing that the code should work if we change the number of elements in the list."""

```
"""friends = ["Osama", "Ahmed", "Sayed", "Ali", "Mahmoud"]

# Needed Output

# "Ahmed", "Sayed", "Ali",

# "Ali", "Mahmoud"""""
```

4) Update last two names

#Update the last two names in the list to the name “science”

"""friends = ["Osama", "Ahmed", "Sayed", "Ali", "Mahmoud"]

Needed Output

["Osama", "Ahmed", "Sayed", "science", "science"]"""

---

5) Add names to the beginning and end of the list

"""friends = ["Osama", "Ahmed", "Sayed"]

Needed Output

["Nasser", "Osama", "Ahmed", "Sayed"]

["Nasser", "Osama", "Ahmed", "Sayed", "Salem"]"""

---

6) Remove first two names and last name

"""friends = ["Nasser", "Osama", "Ahmed", "Sayed", "Salem"]

Needed Output

["Ahmed", "Sayed", "Salem"]

["Ahmed", "Sayed"]"""

7) Merge multiple lists

```
"""friends = ["Ahmed", "Sayed"]

employees = ["Samah", "Eman"]

school = ["Ramy", "Shady"]

# Needed Output

# ["Ahmed", "Sayed", "Samah", "Eman", "Ramy", "Shady"]"""
```

---

8) Sort the list ascending and descending

```
"""friends = ["Ahmed", "Sayed", "Samah", "Eman", "Ramy", "Shady"]

# Needed Output

# ['Ahmed', 'Eman', 'Ramy', 'Samah', 'Sayed', 'Shady']

# ['Shady', 'Sayed', 'Samah', 'Ramy', 'Eman', 'Ahmed']"""
```

---

9) Count elements in the list

```
"""friends = ["Ahmed", "Sayed", "Samah", "Eman", "Ramy", "Shady"]

# Needed Output

# ['Ahmed', 'Eman', 'Ramy', 'Samah', 'Sayed', 'Shady']

# ['Shady', 'Sayed', 'Samah', 'Ramy', 'Eman', 'Ahmed']"""
```

10) Nested list with frameworks

"""technologies = ["Html", "CSS", "JS", "Python", ["Django", "Flask", "Web"]]

Needed Output

Django

Web"""

---

11) Remove extra symbols from a string

"""name = "#@#@science#@#@"

Needed Output

science"""

---

12) Format numbers with leading zeros

"""num = "9"

num = "15"

num = "130"

num = "950"

num = "1500"

Needed Output

0009

0015

0130

0950

1500"""

13) Pad strings with '@' to ensure 20 characters

"""name_one = "computer"

name_two = "computer_science"

Needed Output

#@@@@@@@@@@@@computer

@@@@computer_science"""

14)swap case of letters

"""name_one = "OSamA"

name_two = "osaMA"

Needed Output

osAMa

OSAma"""

18) Count occurrences of "Love" in a string

"""msg = "I Love Python And Although Love Elzero Web School"

Needed Output

2"""

19) Replace '<3' with 'Love' once

"""msg = "I <3 Python And Although <3 Elzero Web School"

Needed Output

I Love Python And Although <3 Elzero Web School"""