

1. ["apple", "banana", "cherry"]
1. ["apple", "banana", "cherry", "orange"]
2. ["apple", "mango", "banana", "cherry", "orange"]
3. ["apple", "mango", "banana", "cherry", "orange", "kiwi", "grape"]

```
fruits = ["apple", "banana", "cherry"]
```

```
fruits.append("orange")
print(fruits)

fruits.insert(1, "mango")
print(fruits)

fruits.extend(["kiwi", "grape"])
print(fruits)
```



A screenshot of a terminal window titled 'TERMINAL'. The window shows the following command and its output:

```
PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py"
['apple', 'banana', 'cherry', 'orange']
['apple', 'mango', 'banana', 'cherry', 'orange']
['apple', 'mango', 'banana', 'cherry', 'orange', 'kiwi', 'grape']
PS C:\Users\adnan>
```

2. [10,20,30,40,50]
1. [10,20,300,40,50]
2. [10,200,3000,400,50]

```
nums = [10, 20, 30, 40, 50]
```

```
nums[2] = 300
print(nums)
```

```
nums[1:4] = [200, 3000, 400]
```

```
print(nums)
```

A screenshot of a terminal window from a code editor. The window has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. The terminal shows the command PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py" followed by the output [10, 20, 300, 40, 50] and [10, 200, 3000, 400, 50]. A circular bullet point is next to the first line of output.

3. [1,2,3]

1. [1,100,2,3]

2. [1,100,2,999]

```
lst = [1, 2, 3]
```

```
lst.insert(1, 100)
```

```
print(lst)
```

```
lst.append(999)
```

```
print(lst)
```

A screenshot of a terminal window from a code editor. The window has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (underlined), and PORTS. The terminal shows the command PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\tempCodeRunnerFile.py" followed by the output [1, 100, 2, 3] and [1, 100, 2, 3, 999]. A circular bullet point is next to the first line of output.

4. [10,20,30,40,50]

1. [10,20,30,40,50,60]

2. [5,10,20,30,40,50,60]

3. [5,10,20,30,40,50,60,70,80,90]

```
list2 = [10, 20, 30, 40, 50]
```

```
list2.append(60)
```

```
print(list2)
```

```
list2.insert(0, 5)
```

```
print(list2)
```

```
list2.extend([70, 80, 90])
```

```
print(list2)
```



The screenshot shows a terminal window with the following content:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py"
● [10, 20, 30, 40, 50, 60]
[5, 10, 20, 30, 40, 50, 60]
[5, 10, 20, 30, 40, 50, 60, 70, 80, 90]
○ PS C:\Users\adnan>
```

5. [42,3.14,"Hello",True]

1. [2.718,3.14,"Hello",True]

2. [2.718,3.14,"Hello",True,1000]

3. [2.718,False,3.14,"Hello",True,1000]

4. [5,3.14,"Hello",True,1000]

```
lst = [42, 3.14, "Hello", True]
```

```
lst[0] = 2.718
```

```
print(lst)
```

```
lst.append(1000)
```

```
print(lst)
```

```
lst.insert(1, False)
```

```
print(lst)
```

```
lst[0] = 5
```

```
del lst[1]
```

```
print(lst)
```



A screenshot of a terminal window titled "TERMINAL". The command "python -u "c:\Users\adnan\Downloads\22.py"" is run, and the output shows a list of lists: [[2.718, 3.14, 'Hello', True], [2.718, 3.14, 'Hello', True, 1000], [2.718, False, 3.14, 'Hello', True, 1000], [5, 3.14, 'Hello', True, 1000]]. The terminal prompt PS C:\Users\adnan> is visible at the bottom.

6. ["Cat", "Dog", "Lion", "Tiger", "Rabbit", "Monkey"]

1) ["lion"]

2) ["Monkey", "Rabbit"]

3) ["Tiger", "Lion", "Dog"]

4) ["Cat", "Tiger"]

5) ["Tiger", "Cat"]

6) ["Monkey", "Lion"]

7) ["Rabbit", "Lion", "Cat"]

8) ["Monkey", "Rabbit", "Tiger", "Lion", "Dog", "Cat"]

```
animallist = ["Cat", "Dog", "Lion", "Tiger", "Rabbit", "Monkey"]
```

```
print(animallist[2:3])
```

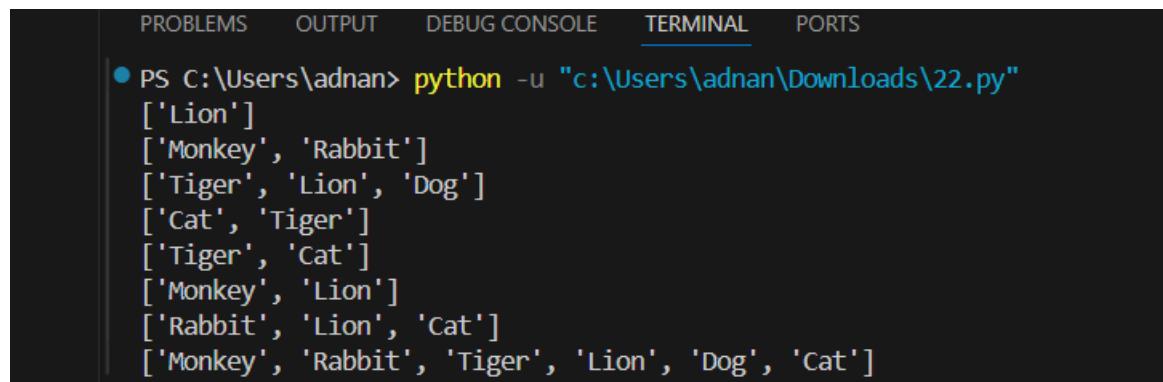
```
print(animallist[-1:-3:-1])
```

```
print(animallist[3:0:-1])
```

```
print(animallist[::-3])
```

```
print(animallist[3::-3])
```

```
print(animallist[-1:-5:-3])  
print(animallist[4::-2])  
print(animallist[::-1])
```



A screenshot of a terminal window with the following content:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
● PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py"  
['Lion']  
['Monkey', 'Rabbit']  
['Tiger', 'Lion', 'Dog']  
['Cat', 'Tiger']  
['Tiger', 'Cat']  
['Monkey', 'Lion']  
['Rabbit', 'Lion', 'Cat']  
['Monkey', 'Rabbit', 'Tiger', 'Lion', 'Dog', 'Cat']
```

7. l1=[50, "apple", True, "car", 40.5]

- 1) Find length of l1
- 2) replace True with False
- 3) [50, "kiwi", "boat", 20, "car", 40.5]
- 4) [5000, "kiwi", "boat", 20, "car", 40.5]
- 5) ["kiwi", "boat", 20, "car", 40.]
- 5] using remove()
- 6) ["kiwi", 20, "car", 40.5] using pop()
- 7) ["kiwi", 20, "car"] using del
- 8) ["kiwi", 20, "car", 100]
- 9) ["banana", "kiwi", 20, "car", 100]
- 10) ["banana", "kiwi", 20, 30.5, "car", 100]
- 11) []

l1 = [50, "apple", True, "car", 40.5]

```
print(len(l1))
```

```
l1[2] = False
```

```
print(l1)

l1[1:3] = ["kiwi", "boat", 20]

print(l1)

l1[0] = 5000

print(l1)

l1.remove(5000)

print(l1)

l1.pop(1)

print(l1)

del l1[-1]

print(l1)

l1.append(100)

print(l1)

l1.insert(0, "banana")

print(l1)

l1.insert(3, 30.5)

print(l1)

l1.clear()

print(l1)
```

```
PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py"
● 5
[50, 'apple', False, 'car', 40.5]
[50, 'kiwi', 'boat', 20, 'car', 40.5]
[5000, 'kiwi', 'boat', 20, 'car', 40.5]
['kiwi', 'boat', 20, 'car', 40.5]
['kiwi', 20, 'car', 40.5]
['kiwi', 20, 'car']
['kiwi', 20, 'car', 100]
['banana', 'kiwi', 20, 'car', 100]
['banana', 'kiwi', 20, 30.5, 'car', 100]
[]
```

8. l2=[50, -1, 2, 100, -6, -3, 67, 79, -55]

1) reverse the list

2) sort in ascending order

3) sort in descending order

```
list5 = [50, -1, 2, 100, -6, -3, 67, 79, -55]
```

```
list5.reverse()
```

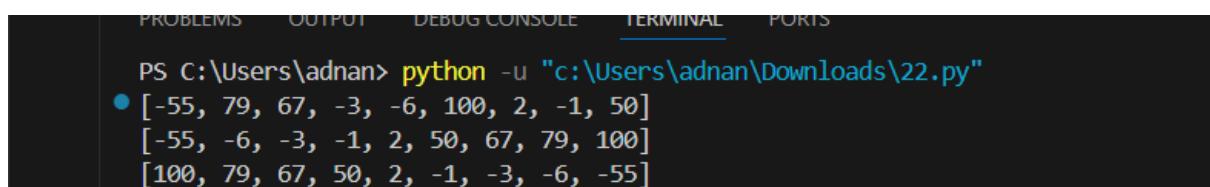
```
print(list5)
```

```
list5.sort()
```

```
print(list5)
```

```
list5.sort(reverse=True)
```

```
print(list5)
```



A screenshot of a terminal window with tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. The terminal shows the command `python -u "c:\Users\adnan\Downloads\22.py"` and its output. The output consists of three lines of code: `[-55, 79, 67, -3, -6, 100, 2, -1, 50]`, `[-55, -6, -3, -1, 2, 50, 67, 79, 100]`, and `[100, 79, 67, 50, 2, -1, -3, -6, -55]`. A blue dot is positioned next to the first line of output.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\22.py"
● [-55, 79, 67, -3, -6, 100, 2, -1, 50]
[-55, -6, -3, -1, 2, 50, 67, 79, 100]
[100, 79, 67, 50, 2, -1, -3, -6, -55]
```