In [4]:

```
#Python program to print all positive numbers in a range
start = -10  # Start of the range
end = 10     # End of the range

print("Negative numbers in the range from", start, "to", end, "are:")
for num in range(start, end +1):  # We use `end + 1` to include the end value in th
    if num < 0:
        print(num)
```

```
Negative numbers in the range from -10 to 10 are:
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
```

In [ ]:

In [5]:

```
#Remove multiple elements from a list in Python
my_list = [1, 2, 3, 4, 5, 6]
elements_to_remove = [2, 4, 6]

my_list = [x for x in my_list if x not in elements_to_remove]
print(my_list)
```

```
[1, 3, 5]
```

In [ ]:

In [7]:

```
#write a Python program to Remove empty List from List
my_list = [1, [], [3, 4], [], [5, 6], [], []]

# Using list comprehension to remove empty lists
my_list = [sublist for sublist in my_list if sublist]

print("List after removing empty lists:", my_list)
```

```
List after removing empty lists: [1, [3, 4], [5, 6]]
```

In [ ]:

In [8]:

```
#write a Python program to Cloning or Copying a list
original_list = [1, 2, 3, 4, 5]
copied_list = list(original_list)

# Modify the copied_list
copied_list.append(6)

print("Original list:", original_list)
print("Copied list:", copied_list)
```

```
Original list: [1, 2, 3, 4, 5]
Copied list: [1, 2, 3, 4, 5, 6]
```

In [ ]:

In [9]:

```
#write a Python program to Count occurrences of an element in a list
my_list = [1, 2, 2, 3, 4, 2, 5, 2]
element_to_count = 2

# Count the occurrences of the element using the count() method
count = my_list.count(element_to_count)

print(f"The element {element_to_count} appears {count} times in the list.")
```

```
The element 2 appears 4 times in the list.
```

In [ ]:

In [10]:

```
#write a Python program to Remove empty tuples from a list
my_list = [(1, 2), (), (3, 4), (), (5, 6), ()]

# Using list comprehension to remove empty tuples
my_list = [tpl for tpl in my_list if tpl]

print("List after removing empty tuples:", my_list)
```

```
List after removing empty tuples: [(1, 2), (3, 4), (5, 6)]
```

In [ ]:

In [11]:

```
#write a Python program to Program to print duplicates from a list of integers
my_list = [1, 2, 2, 3, 4, 4, 5, 6]

# Using a set to find duplicates
seen = set()
duplicates = set()

for num in my_list:
    if num in seen:
        duplicates.add(num)
    else:
        seen.add(num)

print("Duplicates in the list are:", list(duplicates))
```

```
Duplicates in the list are: [2, 4]
```

In [ ]:

In [12]:

```
#write a Python program to find Cumulative sum of a list
my_list = [1, 2, 3, 4, 5]

# Initialize a variable to store the cumulative sum
cumulative_sum = []
total = 0

# Calculate the cumulative sum and store it in cumulative_sum
for num in my_list:
    total += num
    cumulative_sum.append(total)

print("Cumulative sum of the list:", cumulative_sum)
```

```
Cumulative sum of the list: [1, 3, 6, 10, 15]
```

In [ ]:

In [13]:

```
#write a Python program to Sum of number digits in List
my_list = [123, 45, 6789, 12]

# Function to calculate the sum of digits of a number
def sum_of_digits(number):
    total = 0
    while number > 0:
        digit = number % 10
        total += digit
        number //= 10
    return total

# Calculate the sum of digits for each number in the list
digit_sums = [sum_of_digits(num) for num in my_list]

print("Sum of digits in the list:", digit_sums)
```

```
Sum of digits in the list: [6, 9, 30, 3]
```

In [ ]:

In [14]:

```
#write a Python program to Break a list into chunks of size N
def chunk_list(input_list, chunk_size):
    # Use list comprehension to break the input list into chunks of size N
    return [input_list[i:i + chunk_size] for i in range(0, len(input_list), chunk_s

my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9]
chunk_size = 3

# Call the chunk_list function to break my_list into chunks of size chunk_size
chunks = chunk_list(my_list, chunk_size)

print("List broken into chunks of size", chunk_size, ":", chunks)
```

```
List broken into chunks of size 3 : [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
```

In [ ]:

In [15]:

```
#write a Python program to Sort the values of first list using second list
first_list = [3, 1, 2]
second_list = ['C', 'A', 'B']

# Combine the two lists into tuples and sort based on the second list
sorted_lists = sorted(zip(second_list, first_list))

# Extract the sorted values from the result
sorted_first_list = [value for _, value in sorted_lists]

print("Sorted first list based on the second list:", sorted_first_list)
```

```
Sorted first list based on the second list: [1, 2, 3]
```

In [ ]: