```python
#1.Write a program to print a pyramid pattern using stars (*)
n = int(input("Enter the number of rows: "))

for i in range(n):
    print(' ' * (n - i - 1) + '*' * (2 * i + 1))
```

```
Enter the number of rows:  5

    *
   ***
  *****
 *******
*********
```

```python
#2. Write a program to count the even and odd numbers in a list.
numbers = [1, 2, 3, 4, 5, 6]

even_count = 0
odd_count = 0

for num in numbers:
    if num % 2 == 0:
        even_count += 1
    else:
        odd_count += 1

print("Even numbers:", even_count)
print("Odd numbers:", odd_count)
```

```
Even numbers: 3
Odd numbers: 3
```

```python
#
start = int(input("Enter the start of range: "))
end = int(input("Enter the end of range: "))

even_sum = 0
even_numbers = []

for num in range(start, end + 1):
    if num % 2 == 0:
        even_sum += num
        even_numbers.append(str(num))

print(f"Output: {even_sum} ({' + '.join(even_numbers)})")
```