```
In [3]:
n = int(input("Enter size of the array: "))
print("Enter elements:")
for _ in range(n):
   num = int(input())
    arr.append(num)
largest = arr[0]
for i in range(1,n):
    if arr[i] > largest:
        largest = arr[i]
print(largest)
Enter elements:
In [5]:
n = int(input("Enter the input:"))
a = 0
b = 1
print("Fib series")
if n>=1:
   print(a, end=" ")
if n \ge 2:
   print(b, end=" ")
for _{-} in range(2,n):
   c = a + b
   print (c, end=" ")
   a = b
   b = c
Fib series
0 1 1 2 3
In [6]:
n = int(input("Enter a number: "))
factorial = 1
if n < 0:
   print("Factorial is not defined for negative numbers")
else:
    for i in range(1, n + 1):
        factorial *= i
        print(f"{i}! = {factorial}")
1! = 1
2! = 2
3! = 6
4! = 24
5! = 120
In [7]:
import math
n = int(input("Enter a numnber: "))
factorial = 1
if n<0:
```

```
print("Factorial not Exists")
else:
   result = math.factorial(n)
    print("Factorial of", n, "is:", result)
Factorial of 5 is: 120
In [19]:
n = int(input("Enter the input: "))
for i in range(n):
    for j in range (n - i - 1):
        print(" ", end="")
    for k in range (2 * i + 1):
       print("*", end="")
    print()
   ***
  ****
 *****
*****
In [18]:
n = int(input("Enter input: "))
for i in range(n):
   for j in range(i):
        print(" ", end="")
    for k in range (2 * (n - i) - 1):
       print("*", end="")
    print()
*****
 *****
  ****
   ***
In [25]:
n = int(input("Enter number of elements in the array: "))
arr = []
print("Enter the elements:")
for _ in range(n):
    arr.append(int(input()))
freq = {}
for num in arr:
    if num in freq:
        freq[num] += 1
    else:
       freq[num] = 1
for key in freq:
    print(key, " ", freq[key])
Enter the elements:
1 2
2
   1
In [27]:
n = int(input("Enter number of elements in the array: "))
```

```
arr = []
print("Enter the elements:")
for _ in range(n):
   arr.append(int(input()))
index = 1
for i in range(1,n):
    if arr[i] != arr[index - 1]:
        arr[index] = arr[i]
        index += 1
for i in range(index, n):
    arr[i] = " "
print("Output: ", arr)
Enter the elements:
Output: [1, 2, 3, '_', '_']
In [32]:
a = input("Enter 1 word")
b = input("Enter 2 word")
rev a = a[::-1]
if rev a == b:
   print("The word is a palindrome")
else:
   print("The word is not a palindrome")
The word is a palindrome
In [33]:
s = input("Enter a string: ")
freq = {}
for char in s:
   if char in freq:
        freq[char] += 1
    else:
        freq[char] = 1
\max freq = 0
most freq char = ''
for char in freq:
    if freq[char] > max freq:
        max freq = freq[char]
        most freq char = char
print("Most frequent character:", repr(most_freq_char))
Most frequent character: 'T'
In [35]:
# Recursive function to check palindrome
def is palindrome(s, left, right):
    if left >= right:
       return True
    if s[left] != s[right]:
```

return False

s = input("Enter a string: ")

Call recursive function

return is_palindrome(s, left + 1, right - 1)

```
if is_palindrome(s, 0, len(s) - 1):
    print("Yes")
else:
    print("No")
```