Q.1) int arr[]={1,2,2,3,3,4,4,4,4,5,5,5,5,5}
alter array in such way that the element which occur most times will print first.
sample output-arr[]={5,5,5,5,5,4,4,4,4,2,2,3,3,1}

```python
mylist=[1,2,2,3,3,4,4,4,4,5,5,5,5,5]
cnt = {}

for i in set(mylist) :
    if i not in cnt.keys():
        cnt[i]=mylist.count(i)

sorted_dict = sorted(cnt.items(), key=lambda item : item[1], reverse=True)
print(sorted_dict)

res = []
for value, counts in sorted_dict:
    res.extend([value]*counts)

print(res)
```

```
"D:\cdac\4 Python\Practice\venv\Scripts\python.exe" "D:\cdac\4 Python\Practice\.ipynb_checkpoints\Demo.py"
[5, 5, 5, 5, 5, 4, 4, 4, 4, 2, 2, 3, 3, 1]

Process finished with exit code 0
```

Q.2) Write a Python program to find if a given string starts with a given character using Lambda.

```python
str = input("Enter string: ")
k = input("Enter letter: ")
res = lambda x:True if x.startswith(k) else False

print(res(str))
```

```
"D:\cdac\4 Python\Practice\venv\Scripts\python.exe" "D:\cdac\4 Python\Practice\.ipynb_checkpoints\Demo.py"
Enter string: abcd
Enter letter: a
True
```

Q.3) Write a Python program to filter a given list whether the values in the list are having length of 6 using Lambda

```python
l1 = list(input("enter elements: ").split(" "))
print("list is : ", l1)
evaluate = lambda x: True if len(x) == 6 else False

for i in l1:
    if(evaluate(i)): print(f"Length of {i} is 6")
    else: print(f"{i} is not of length 6")
```

```
"D:\cdac\4 Python\Practice\venv\Scripts\python.exe" "D:\cdac\4 Python\Practice\.ipynb_checkpoints\Demo.py"
enter elements: abc defghi jkl mnopqr
list is :  ['abc', 'defghi', 'jkl', 'mnopqr']
abc is not of length 6
Length of defghi is 6
jkl is not of length 6
Length of mnopqr is 6
```

Q.4) Write a Python program to create Fibonacci series upto "n" using Lambda.

```python
n = int(input("Enter the value of n: "))

fib = lambda n: [0, 1] + [
    (lambda a, b: a + b)(x, y)
    for x, y in zip(fib(n-1), fib(n-1)[1:])
][:n-2] if n > 1 else [0]

print("Fibonacci series:")
print(fib(n))
```

```
"D:\cdac\4 Python\Practice\venv\Scripts\python.exe" "D:\cdac\4 Python\Practice\.ipynb_checkpoints\Demo.py"
Enter the value of n: 7
Fibonacci series:
[0, 1, 1, 2, 3, 5, 8]
```