'''Q.1) Write a Python program to count the even, odd numbers in a given array of integers using Lambda. '''

```
ar = [2, 3, 4, 5,6]
e = len(list(filter(lambda x: x % 2 == 0, ar)))
print("Even numbers:", e)
print("Odd numbers:", len(ar)-e)
```

```
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7> & C:/ProgramData/anaconda3/python.exe "c
s/divek/OneDrive/Desktop/Python Placement Preparation Test/Day 7/Que1.py"
Even numbers: 3
Odd numbers: 2
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7>
```

'''Q.2) Write a Python program to find palindromes in a given list of strings using Lambda. '''

```
s = ["abc", "abb", "aba", "a"]

p = list(filter(lambda x: x == x[::-1], s))

print("palindrome:", p)
```

```
s/divek/OneDrive/Desktop/Python Placement Preparation Test/Day 7/Que2.py"
palindrome: ['aba', 'a']
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7>
```

'''

Q.3) Solve the following pattern using one loop only: accept no. of rows from user.

1

121

12321

1234321'''

```
n=4
for i in range(1,n+1):
    for j in range(1,i+1):
        print(j,end="")
    for k in range(i-1,0,-1):
        print(k,end="")
    print()
```

```
s/divek/OneDrive/Desktop/Python Placement Preparation Test/Day 7/Que3.py"
1
121
12321
1234321
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7>
```

'''Q.4) Write a Python program to convert a byte string to a list of integers.

Sample Input:

“hello”

Sample Output:

[104, 101, 108, 108, 111]'''

```
li=[]
for i in "hello":
    li.append(ord(i))
print(li)
```

```
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7> & C:/ProgramData/anaconda3/python.exe "c:/User
s/divek/OneDrive/Desktop/Python Placement Preparation Test/Day 7/Que4.py"
[104, 101, 108, 108, 111]
PS C:\Users\divek\OneDrive\Desktop\Python Placement Preparation Test\Day 7>
```