

Python

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

'''

```
arr = [1, 39, 4, 45, 66, 93]
```

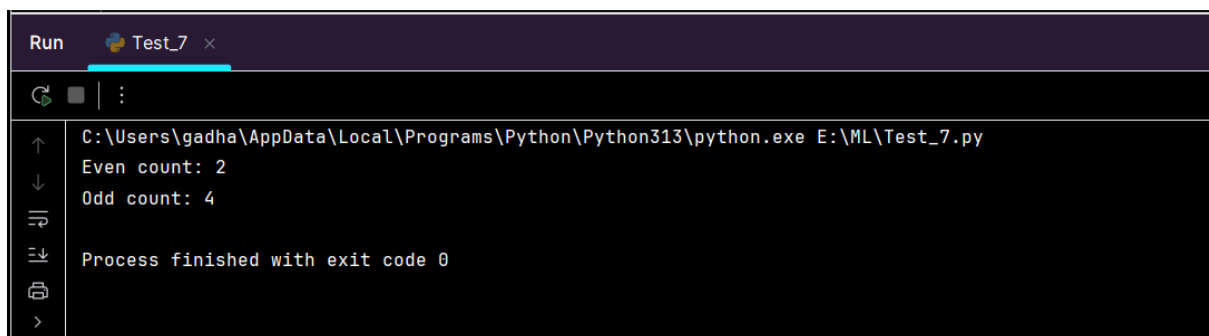
```
even_count = len(list(filter(lambda x: x % 2 == 0, arr)))
```

```
odd_count = len(list(filter(lambda x: x % 2 != 0, arr)))
```

```
print("Even count:", even_count)
```

```
print("Odd count:", odd_count)
```

Output:



```
Run Test_7 x
C:\Users\gadha\AppData\Local\Programs\Python\Python313\python.exe E:\ML\Test_7.py
Even count: 2
Odd count: 4
Process finished with exit code 0
```

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

```
arr=["Govind","vita","madam","level"]
```

```
palindromes=list(filter(lambda x:x==x[::-1],arr))
```

```
print("Palendromes :",palindromes)
```

Output:

```
Run Test_7 x
C:\Users\gadha\AppData\Local\Programs\Python\Python313\python.exe E:\ML\Test_7.py
Palendromes : ['madam', 'level']
Process finished with exit code 0
```

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

```
1
121
12321
1234321'''
```

```
n = int(input("Enter number of rows: "))
```

```
for i in range(1, n + 1):
    print("".join(str(x) for x in range(1, i + 1)) +
          "".join(str(x) for x in range(i - 1, 0, -1)))
```

Output:

```
Run Test_7 x
C:\Users\gadha\AppData\Local\Programs\Python\Python313\python.exe E:\ML\Test_7.py
Enter number of rows: 4
1
121
12321
1234321
```

'''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] ""

```
string="hello"
```

```
output=[]
```

```
for char in string:
```

```
    output.append(ord(char))
```

```
print(output)
```

Output:

The screenshot shows a 'Run' window in a Python IDE. The title bar says 'Run' and 'Test_7'. The main area displays the command prompt path 'C:\Users\gadha\AppData\Local\Programs\Python\Python313\python.exe E:\ML\Test_7.py' followed by the output '[104, 101, 108, 108, 111]'. Below the output, it says 'Process finished with exit code 0'. On the left side of the window, there is a vertical toolbar with icons for running, stopping, and debugging the code.