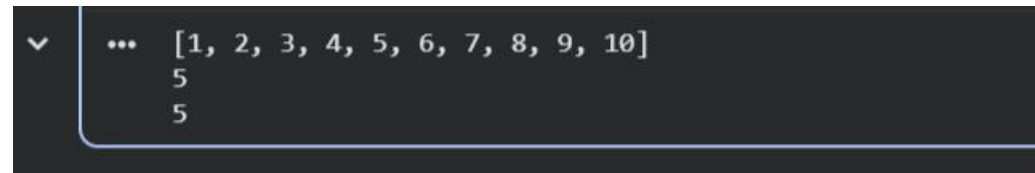Q.1) Write a Python program to count the even, odd numbers in a given array of integers using Lambda.
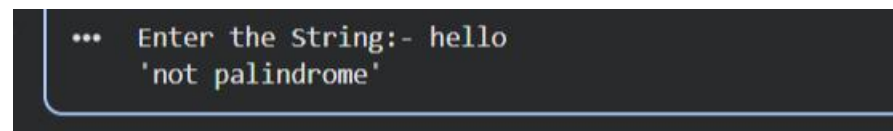
```python
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
even = list(filter(lambda x: x % 2 == 0, numbers))
odd = list(filter(lambda x: x % 2 != 0, numbers))
print(f"{numbers}")
print(f"{len(even)}")
print(f"{len(odd)}")
```

```
...    [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
       5
       5
```

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

```python
string = input("Enter the String:- ")
result = lambda n: "Palindrome" if n == n[::-1] else "Not Palindrome"
result(string)
```
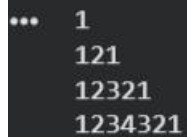
```
...    Enter the String:- hello
       'not palindrome'
```

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()
```
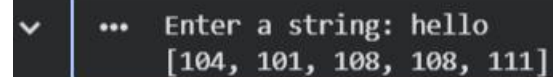
```
...  1
     121
     12321
     1234321
```

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]

```
string1 = input("Enter a string: ")
output = [ord(char) for char in string1]
print(output)
```

```
...  Enter a string: hello
     [104, 101, 108, 108, 111]
```