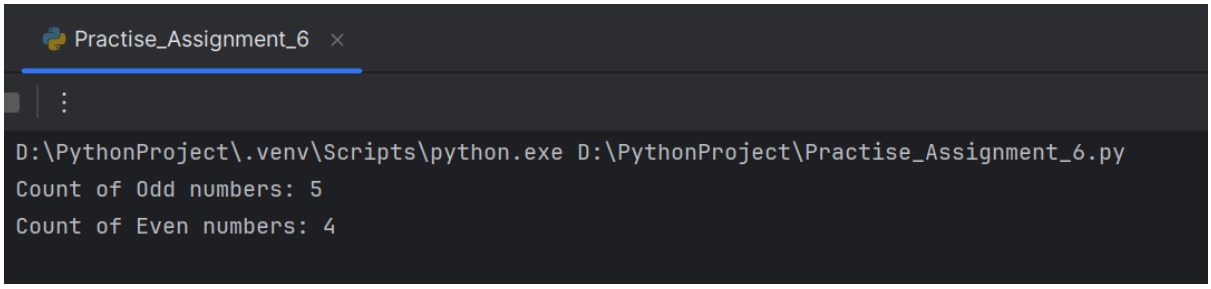
Q.1) Write a Python program to count the even, odd numbers in a given array of integers using Lambda.

```
arr = [1, 2, 3, 4, 5, 6, 7, 8, 9]
e_count = len(list(filter(lambda x: x % 2 == 0, arr)))
o_count  = len(list(filter(lambda x: x % 2 != 0, arr)))
print("Count of Odd numbers:",o_count)
print("Count of Even numbers:",e_count)
```



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

```
words = ["madam", "taranpreet", "python", "smvita", "level", "data", "radar", "mam"]
p = list(filter(lambda x: x == x[::-1], words))
q=[]
for i in words:
    if i not in p:
        q.append(i)
print("Palindrome Strings:", p)
print("Not Palindrome Strings:",q)
```

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

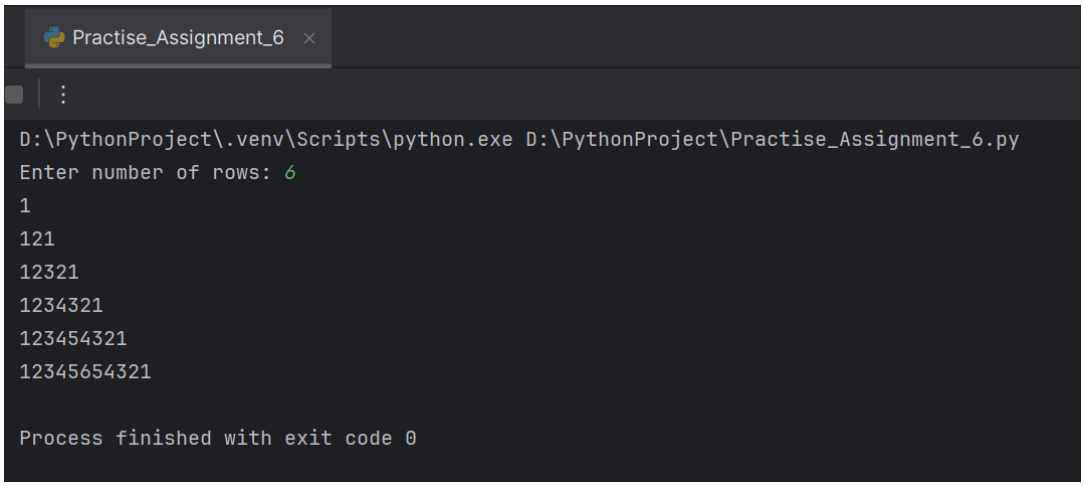
1

121

12321

1234321

```
n = int(input("Enter number of rows: "))
s = ""
for i in range(1, n + 1):
    s += str(i)
    print(s + s[-2::-1])
```



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]

```
text=input("Enter a string: ")
result = list(text.encode())
print(result)
```