PLACMENT PREP 6

##Q1

```
a = [11,24,36,9,7,8,29,32,64,81,99,45]

even = list(filter(lambda x: x%2 == 0,a))

print("total Even numbers are:", len(even))


odd = list(filter(lambda x: x%2 !=0,a))

print("total Odd numbers are:", len(odd))
```

```
exe c:/Users/Sanket/OneDrive/Desktop/PYTHON/042_Sanket_Pingle_placement_prep6.py
total Even numbers are: 5
total Odd numbers are: 7
```

##Q2

```
l1 = ['hello','happy','level','barcelona','madam']

pal = list(filter(lambda i: i==i[::-1],l1))

print("Palindrome are",pal)
```

```
Palindrome are ['level', 'madam']
```

##Q3

```
n = int(input("Enter number of rows (1-9): "))
num_of_ones = 0
for i in range(n):
    num_of_ones = num_of_ones * 10 + 1
    print(num_of_ones ** 2)
```

```
Enter number of rows (1-9): 4
1
121
12321
1234321
```

##Q4

```
word = b"hello"
print(list(word))
```

```
exe c:/Users/Sanket/OneDrive/Desktop/PYTHON/042_Sanket_
[104, 101, 108, 108, 111]
PS C:\Users\Sanket\OneDrive\Desktop\PYTHON>
```