

## Practical

(a) Write a python script to demonstrate lambda function.

```
#function to calculate power of 2 of number
power =lambda number : number**2
#call function for task
result = power (2)
print("result :", result)
```

```
>>>
==== RESTART:
result : 4
```

```
sum=lambda n1, n2,n3 :n1+n2+n3
result=sum(11,22,33)
print("result:",result)
```

```
>>>
---- RESTART: C:/
result: 66
```

(b) Write a python script to demonstrate lambda function with map()

```
numberlist=[11,22,33,44]
doublelist=list(map(lambda number:number*number,numberlist))
print(doublelist)
```

```
>>>
==== RESTART: C:/Users/stud
[121, 484, 1089, 1936]
```

(c) python script to demonstrate lambda function with filter().

```
ages=[22,3,44,56,2]
adults=list(filter(lambda x: (x>18),ages))
print("eligible for votes")
for x in adults:
    print(x)
```

```
>>>
==== RESTART: C:/Use:
eligible for votes
22
44
56
```

```
ages=[22,3,44,56,2]
def eligible(x):
    if x<10:
        return False
    else:
        return True
adults = list(filter(eligible,ages))

print("eligible for votes")
for x in adults:
    print(x)
```

```
>>>
eligible for votes
22
44
56
```