```
P/2.py-C/asg/P/2.py (3.11.2)
File Edit Format Bun Options Window Help
print("Sharan Shetty 60004220224 C151 C3-1")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - o ×
 print("Sharan Shetty 60004220224 cl51 c2-1")
rings = int(input("Enter the number of rings in the tower-"))
def hanoi(n, source, aux, target):
    if n==1:
        print("Ring 1 from (source) to {target}")
    else:
        hanoi(n-1, source, target, aux)
    print("Ring (n) from (source) to {target}")
        hanoi(n-1, aux, source, target)
  hanoi(rings,'A','B','C')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ln: 12 Col: 20
  ▶ IDLE Shell 3.11.2
                                                                                                                                                                                                                                                                                                                                                                                                            - o ×
DUE Shell 3.11.2

[Rie Edit Shell Debug Options Window Help

[Python 3.11.2 (tags/v3.11.2:876ead1, Feb 7 2023, 16:38:35) [Msc v.1934 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

| Sharan Shetty 6000420224 c151 G3-1
| Enter the number of rings in the tower-3
| Ringl 1 from A to C
| Ringl 2 from A to C
| Ringl 3 from B to C
| Ringl 1 from B to C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ln: 14 Col: 0
```

```
Py2.py-C/asg/Py2.py(3.11.2)
File Edit Fgrmat Bun Options Window Help
print("Sharan Shetty 60004220224 C151 C3-1")
                                                                                            - o ×
a=int(input("Enter first number: "))
b=int(input("Enter second number: "))
x=lambda a,b:(a if a>b else b)
print("Greater number: ",x(a,b))
                                                                                                              Ln: 9 Col: 0
- 0 X
```

```
Py2.py - C/asg/Py2.py (3.11.2)
File Edit Fgrmat Bun Options Window Help
print("Sharan Shetty 60004220224 C151 C3-1")
                                                                                                                                                                                                                                                           - o ×
 addition=lambda x,y:x+y
 11=[]
12=[]
n = int(input("Enter length of lists: "))
print("Enter elements of list one")
for i in range(n):
    a = int(input("Enter element: "))
    ll.append(a)
print("Enter elements of list two")
for i in range(n):
    b = int(input("Enter element: "))
12.append(a)
 print("List one ",11)
print("List two ",12)
ans=list(map(addition, 11, 12))
print(ans)
                                                                                                                                                                                                                                                                                               Ln: 22 Col: 10
 ▶ IDLE Shell 3.11.2
                                                                                                                                                                                                                                                        - o ×
 File Edit Shell Debug Options Window Help

Pythom 3.11.2 (tags/v3.11.2:078eadl, Feb 7 2023, 16:38:35) [MSC v.1934 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.
Ln: 22 Col: 0
```

```
Py2.py - C/asg/Py2.py (3.11.2)
File Edit Format Run Options Window Help
print("Sharan Shetty 60004220224 C151 C3-1")
                                                                                                                                                                                                                                                                                                                                                                  - o ×
l={|
n = int(input("Enter length of list: "))
 for i in range(n):
    a = int(input("Enter element: "))
    l.append(a)
print(1)
oddnos=list(filter(lambda x: x*2!=0,1))
cube=list(map(lambda x: x**3,oddnos))
print("Answer ",cube)
                                                                                                                                                                                                                                                                                                                                                                                                                    Ln: 13 Col: 16
DLE Shell 3.11.2

| File Edit Shell Debug Options Window Help
| Eython 3.11.2 (tags/v3.11.2:978ead1, Peb 7 2023, 16:38:35) [MSC v.1934 64 bit (AMD64)] on win32
| Type "help", "copyright", "credits" or "license()" for more information.
| Sharan Shetty 60004220224 C151 C3-1
| Enter length of list: 5
| Enter element: 1
| Enter element: 2
| Enter element: 3
| Enter element: 4
| Enter element: 5
| [1, 2, 3, 4, 5]
| Answer [1, 27, 125]
| Sharan Shetty 6000420224 C151 C3-1
IDLE Shell 3.11.2
                                                                                                                                                                                                                                                                                                                                                 - o ×
                                                                                                                                                                                                                                                                                                                                                                                                                          Ln: 14 Col: 0
```

// 3:	showa shetty
ð	
3	Exteriment-2
7	
*	Compact and anonymous way to deline small
1	compact and anonymous way to detire small
	Lamba functions are typically used for a quick one
	time to for a short operation.
8	Key operations of lambola functions
	Concider.
.75	Anonymous
17:	Limited Scope
	eg:- add=lambola xy;x+y
	8egult = add(2.3)
*	map function- mapping refers to process of applying
	a given tunction to each express of a collection
	the notice of the sive a new collection of seconds
0	Characteristics of map tunctions
	Traceloria chata
11	Apply a function to each element
iii.	RETURN A DEW HERADIE
	Cy:- Square = lambol a x: xx
	1=[1,2,3,4,5]
	point (1; st (map (square, 1))
	Privit (1:8) (1:04 (5)
	output= [1,4,0,16,25]
	FOR EDUCATIONAL USE
Gundaram	

Filter function- Filter Junction is used to tilter elements from an iterable (such as list) board on clements that satisfy the given condition Judy Jemoving elements Key characteristics of filter function Filters based on conditions no=[1,2,3,4,5 def is even (= Jeturn 70% 2==0 even_no=list (tilter (is even, no wint (even-no) output: - TR. 1 Tower of Haroi: We solved tower of haroi using recursive function whose main objective; nove toon entrise stack from one peo another. Conclusion - Recussive function was implement and we also learn't max and filter functions and their use in question. am) FOR EDUCATIONAL USE