1. Write a program to find the area of rectangle. Take input from user.

```
x = int(input('Enter side 1: '))
y = int(input('Enter side 2: '))
print(x * y)
```

2. Write a program to swap the values of two variables.

```
x = int(input('Enter number 1: '))
y = int(input('Enter number 2: '))
z = x
x = y
y = z
print("number 1 is ", x)
print("number 2 is ", y)
```

3. Write a program to find whether a number is even or odd.

```
x = int(input('Enter number: '))
if x % 2 == 0:
        print("even")
else:
        print("odd")
```

4. Write a program to check the largest among the given three numbers. (note: use elif here)

```
x = int(input('Enter number 1: '))
y = int(input('Enter number 2: '))
z = int(input('Enter number 3: '))
if x > y and x > z:
        print(x)
elif y > x and y > z:
        print(y)
else:
        print(z)
```

5. Write a program to demonstrate List functions and operations.

```
list = ['physics', 'chemistry', 1997, 2000];
print (list[1:3])
list.append('maths')
print(list)
print(list.count('physics'))
list.pop()
print(list)
list.insert (2, 'maths')
print(list)
list.remove('chemistry')
print(list)
list.reverse()
print(list)
```

6. Consider the tuple(1,3,5,7,9,2,4,6,8,10). Write a program to print half its values in one line and the other half in the next line.

```
t = (1,3,5,7,9,2,4,6,8,10)
print(t[:5])
print(t[5:])
```

7. Consider the tuple (12, 7, 38, 56, 78). Write a program to print another tuple whose values are even number in the given tuple.

```
t = (12, 7, 38, 56, 78 )
t1 = ()
for i in t:
        if i % 2 == 0:
                t1 = t1 + (i,)
print (t1)
```

8. Write a Python program to print negative Numbers in a List using for loop. Eg. [11, −21, 0, 45, 66, −93].

```
l = [11, -21, 0, 45, 66, -93]
for i in l:
if i < 0:
        print(i)
```

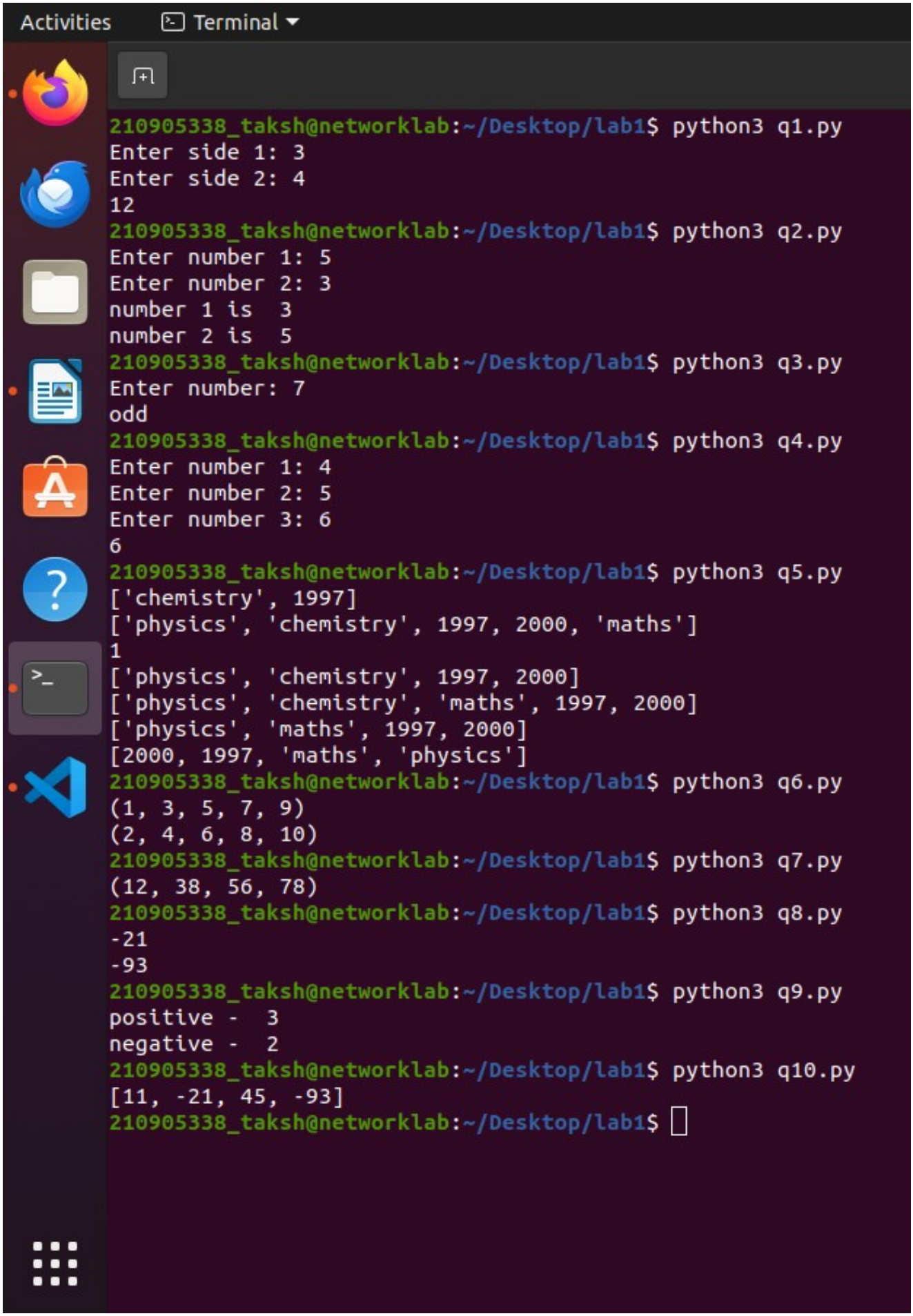
9. Write a Python program to count positive and negative numbers in a List.

```
p = 0
n = 0
l = [11, -21, 0, 45, 66, -93]
for i in l:
if i < 0:
        n = n + 1
elif i > 0:
        p = p + 1

print("positive - ", p)
print("negative - ", n)
```

10. Write a Python program to remove all even elements from a list.

```
l = [11, -21, 0, 45, 66, -93]
for i in l:
        if i % 2 == 0:
                l.remove(i)
print(l)
```


Activities
Terminal
210905338_taksh@networklab:~/Desktop/lab1$ python3 q1.py
Enter side 1: 3
Enter side 2: 4
12
210905338_taksh@networklab:~/Desktop/lab1$ python3 q2.py
Enter number 1: 5
Enter number 2: 3
number 1 is 3
number 2 is 5
210905338_taksh@networklab:~/Desktop/lab1$ python3 q3.py
Enter number: 7
odd
210905338_taksh@networklab:~/Desktop/lab1$ python3 q4.py
Enter number 1: 4
Enter number 2: 5
Enter number 3: 6
6
210905338_taksh@networklab:~/Desktop/lab1$ python3 q5.py
['chemistry', 1997]
['physics', 'chemistry', 1997, 2000, 'maths']
1
['physics', 'chemistry', 1997, 2000]
['physics', 'chemistry', 'maths', 1997, 2000]
['physics', 'maths', 1997, 2000]
[2000, 1997, 'maths', 'physics']
210905338_taksh@networklab:~/Desktop/lab1$ python3 q6.py
(1, 3, 5, 7, 9)
(2, 4, 6, 8, 10)
210905338_taksh@networklab:~/Desktop/lab1$ python3 q7.py
(12, 38, 56, 78)
210905338_taksh@networklab:~/Desktop/lab1$ python3 q8.py
-21
-93
210905338_taksh@networklab:~/Desktop/lab1$ python3 q9.py
positive - 3
negative - 2
210905338_taksh@networklab:~/Desktop/lab1$ python3 q10.py
[11, -21, 45, -93]
210905338_taksh@networklab:~/Desktop/lab1$