**Exercise No**:8

**Date**:20.11.2020

**Aim:**

To write a python program to create a list of tuples having first element as the number and second element as the cube of the number and the list of tuples is sorted in increasing order by the last element.

**Program:**

n=int(input())

lst=[]

for i in range (n):

a=int(input())

lst.append(a)

r=[(j,pow(j,3))for j in lst]

print(r)

def first(n):

return n[0]

r.sort(key=first)

print(r)

**Link:**

[http://103.53.53.18/mod/vpl/forms/edit.php?id=317&userid=1776#](http://103.53.53.18/mod/vpl/forms/edit.php?id=317&userid=1776%23)

**Output:**

3

1

4

3

[(1, 1), (4, 64), (3, 27)]

[(1, 1), (3, 27), (4, 64)]

**Result:**

The list is created and cube of the number is found and is displayed in sorted order and the results are verified.