**Question:** Get the input from users for square of a side and radius of a circle, create dictionary of lambda functions to find area of square and circle and print the total area.

**Question:** Print the **Sweet** fruits.

fruits = (('Lemon','sour'), ('DragonFruit', 'Sweet'), ('Grapes','soUr'), ('Kiwi','Sour'), ('Apples','sweet'), ('Orange','sour'), ('Blueberries','sweet'), ('Limes','Sour') )

**Output :** [DragonFruit, Apples, Blueberries]

**Question**: Find the words with 2nd letters are capital in the given list

lst = ['LIon','Tiger','CHeetah','Peacock','CHimpunsy']

A dictionary of names and their weights on earth is given. Find how much they will weigh on the moon. (Use map and lambda functions)

**Formula** : wMoon = (wEarth \* GMoon) / GEarth

\*\* Weight of people in kg \*\*

WeightOnEarth = {'John':45, 'Shelly':65, 'Marry':35}

**Gravitational force on the Moon: 1.622 m/s2**

GMoon = 1.622

**Gravitational force on the Earth: 9.81 m/s2**

GEarth = 9.81

**Output:** Weight on Moon: {'John': 7.44, 'Shelly': 10.75, 'Marry': 5.79}

**Question:**: A list containing multiple lists is given. Convert each inner list into sets and find the intersection of all the sets.

Use reduce function

given\_sets = [[1, 2, 3, 4, 8], [2, 3, 8, 5, 6], [8, 4, 5, 3, 7], [6, 9, 8, 3], [9, 12, 3, 7, 6, 8, 4, 6, 21, 1, 6]]

**Output:** {8, 3}

**Question:** A list of words is given. Convert the words into uppercase. Use lambda and map functions.

X=[‘Amy’,’Anand’,’Will’,’Bruce’]

**Question:** Find the cumulative sum of the list [9,8,7,6,5] using accumulate() and lambda function.

Input list: [9, 5, 7, 8, 5]

Write a program to check whether an year entered by an user is leap year or not

Take a string containing punctuation marks as an input from user and write a program to remove all the punctuation marks from a string

Take two separate numbers as input from the user and Write a program to swap 2 numbers without using temporary variable

Write a program to print product of following variables

integer = 10

string = "15"

Write a program to print following pattern

a

b c

d e f

g h i j

k l m n o

p q r s t u

**Question:** A list of dates (dd-mm-yyyy) in the form of string is given below. Create a new list that stores Months i.e. the 'mm' part from the dates in the given list.

datesList = ['17-12-1997','22-04-2011','01-05-1993','19-06-2020']

**Output**: ['12', '04', '05', '06']

**Write a program to print following pattern**

\*

\* \*

\* \* \*

\* \*

\*

Below list contains age and name of five students. Convert the list into a dictionary such that the name is taken as key and the age before their name is taken as thier respective value in the dictionary

students = [26,'Jon',34,'Roger',13,'Jessica',24,'Monica',65,'Ashton']

Output: {'Jon':26, 'Roger':34, 'Jessica':13, 'Monica':24, 'Ashton':65}

### Write a program to check whether two strings, taken from user, are anagram or not

### Write a program that sorts all the elements of the list according to the first letter, irrespective of their cases (uppercase or lowercase). Note: Do not use any inbuilt sorting function

Input: ['Jon', 'Roger', 'jessica', 'abraham','Monica', 'Ashton']

Output: ['abraham', 'Ashton', 'Jon', 'jessica', 'Monica', 'Roger']

### Write a program to space from keys of the given dictionary

Employee = {'emp 01' : 'Raj', 'emp 02' : 'Sheela', 'emp 0 3 ': 'Joseph'};

Output:  
New dictionary : {'emp01': 'Raj', 'emp02': 'Sheela', 'emp03': 'Joseph'}

### Write a program to find numbers between 10000 to 20000 from a given array

**Use the list given below:**

Sales = [1432,143223,2043332,1642357,54327,754338,12459,75435,224454,1433,12447,25532,86674,74338,12678]