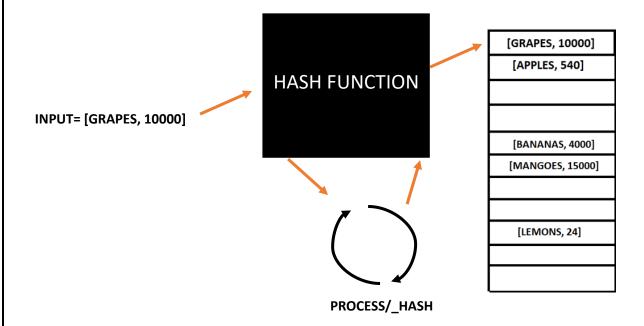
HASH TABLE IMPLEMENTATION

How it works?

[GRAPES, 10000]	[GRAPESS, 1000]	[GRAAPES, 5000]
[APPLES, 540]		
	1	
[BANANAS, 4000]		
[MANGOES, 15000]		
[LEMONS, 24]		

How to implement

LIST/ARRAY= [[1], [4], [5], [2] , [3],]



ALOGRITHM:

HASH FUNCTION (EXAMPLE):

_Hash ():

take to full key variable.

Iterate through each variable.

Initialize hash =0.

Add has to the starting and then add UTF-8/UTF-16 character code to it % the length of the hash table which will already be specified by now.

Return hash code.

HASH TABLE

- Take and initial array of length specified
- The has table will have 2 functions
 - Set() place the elements at the hashed address
 - Get() will get the has address of the key and lookup for the element at the given address

Constructor(length):

- o Initialize the array with the length
- Initialize the array element as blank array/list[]

• Set(key, value):

- O Get the hash code consider it as the index of the array at which the key and value is to be stored.
- O If there is already a [key, value] pair at that index :
 - Array[index][length] = the list of key and value at the given index
- O else:
 - insert the list of key and value at the given index

• Get(key) :

- o Get the hash code of the address/ index at which the value is residing
- o Iterate through each key of residing at the address
- o if the key matches the desired key:
 - Return the value of the particular key
- o else:
 - return undefined/None/error message