**MEMORY ENVIRONMENTAL FOR SAMPLE CODE 1.1**

**(NOTE: Passed value is an integer, an immutable type)**

These memory addresses will very easy

(1) 🡨 Reference count time as these are allocated by 0s

Front loaded 800 816 832 848

Data space

Till line 7-9 of code of –main--

(2) 🡨 Reference count

Data space 800 816 832 864

At line 10 (function is called) argument num

Is redevised in parameter a and for line

1, 2, 3 environment remains the same.

800 816 832 848 864

Data space see the global environments num remains

Unaffected from changes to variable a of

myfun1

**… ….**

7

3

4

5

6

Local Environment

(My fun (1))

Global Environment

6

5

4

3

**… ...**

Global Environment

Num

4

3

6

5

… …

**…. …..**

Global environment

At line 4

Local memory environment remains the

Same till line 6 and the my fun (1) gets over

And control retunes to—main—part’s line 11

And the local environment of my fun (1) is

Removed.

(1)

800 816 832 848

Data space

At line 11, when num’s value is printed

Python print 3 is the number remained in

Its scope and thus always remained 3.

6

5

4

3

Local env(my fun(1)

a a(a=a+2)

Num