LECTURE - 32

POINTERS (PART 02) AND ARRAYS

PROGRAMMING IN 'C'

NULL Pointer: Nothing int main () & tr= wull A MULL int \* tr = NULL; printf ("% 1", ptr); cleclare printf ("%d', x);
garbage Value of Warning return o; Unwanted behaviour

Nothing

Nothing

NONE

NONE

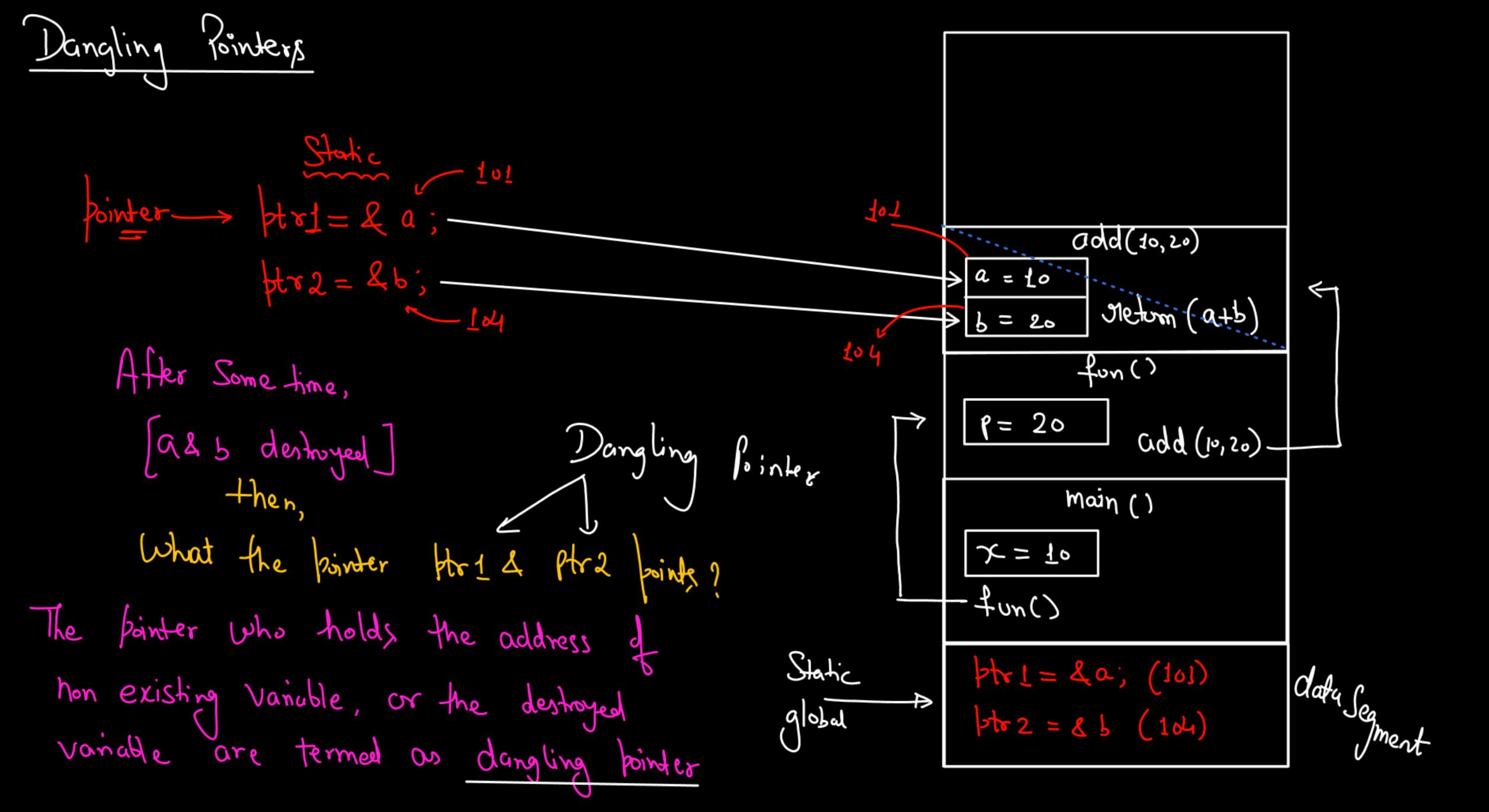
NULL ptr

Why NULL Pointer (Void Pointer)?

two Major (ases

A) To Prevent from Garbage Value be the address of other Variable.

(B) To Inevent from Dangling Pointers:

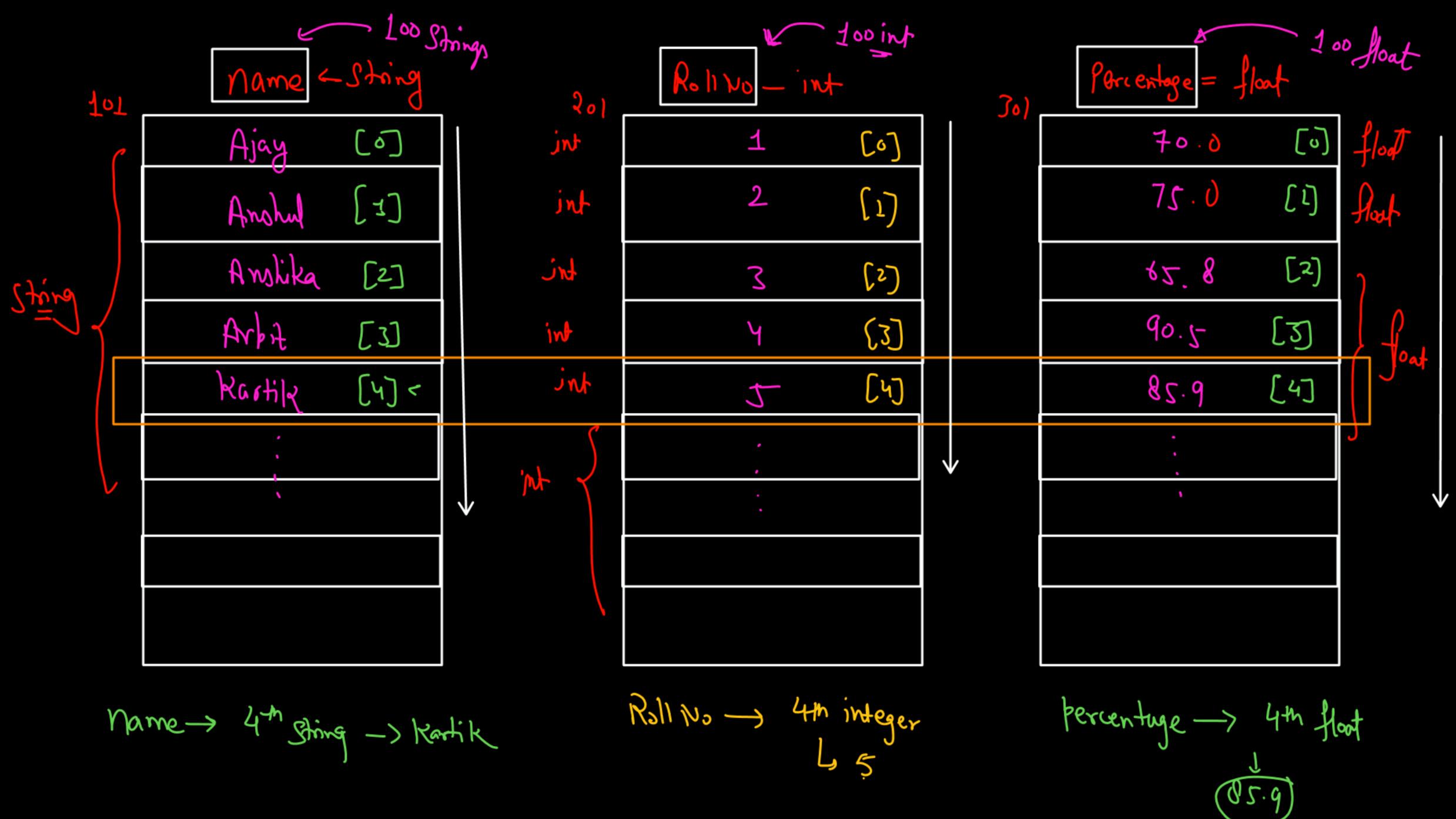


jnt main () { 201 int x = 20; 20  $\chi$ jnt \* a = & x; Binter 501 int y= 50; Static int \* b= &y: printf ("%d", b); mintf ("%d" +b); 300 300 Meturn 0; Value at (b) danglines value at (300) A [garboge Value]

Dangling Pointers -> Dangerous Prevent from dangling Lowe use Nucl Pointers, or set the pointer Variable to NULL Before destroying a referenced Variable. ठ्या क्या भ free the pointer Variable All Minimal assignment of the address of Jocal Variable will keep program.

Safe from dangling pointer. Scope & duration within Block

Arrays in Collection is call	3	Homogene	Por Kinia Seleme	in the	8ucces	sive memory	
Suppose, Sting name =			Name, Roll			1	hame sting Roll Ms - thy Laste
Rollno =	1	2	3	4	5	• • •	Percentage Mon
loat Percentage =	70.0	75.0	67.8	90.5	85.9		4 Ross



100 mt 1 int = 4 Bytes Size of (Rolino) - (100 int x 4) => 400 Bytes

Here, Roll No is an array!

amay of integer

of Storing multiple values in a single Variable) Data Smichre

Percentage -> 100 floods 1 Host = 4 Bytes Size of (Percentage)

100 x 4 = You Bytes

Array of floot