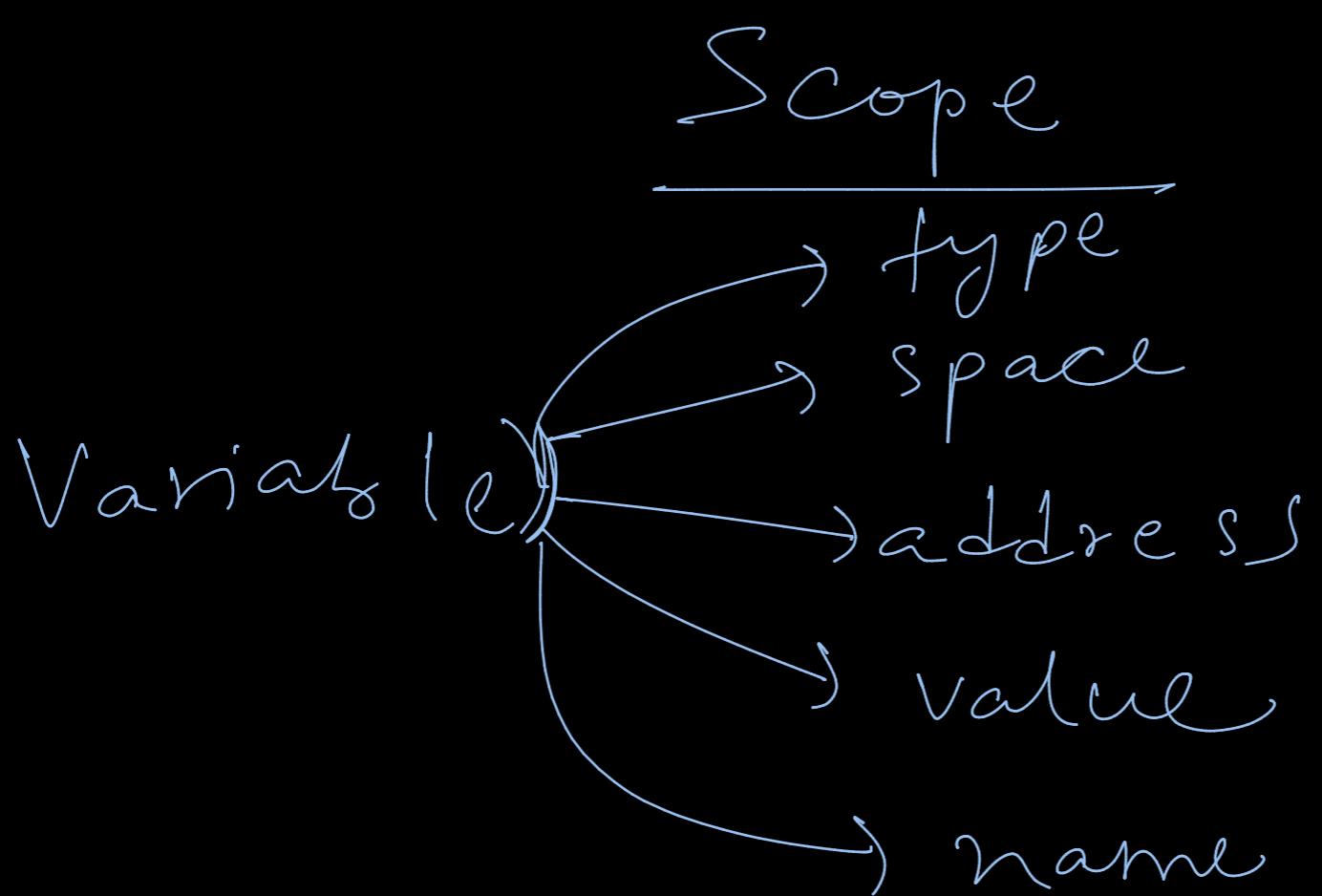


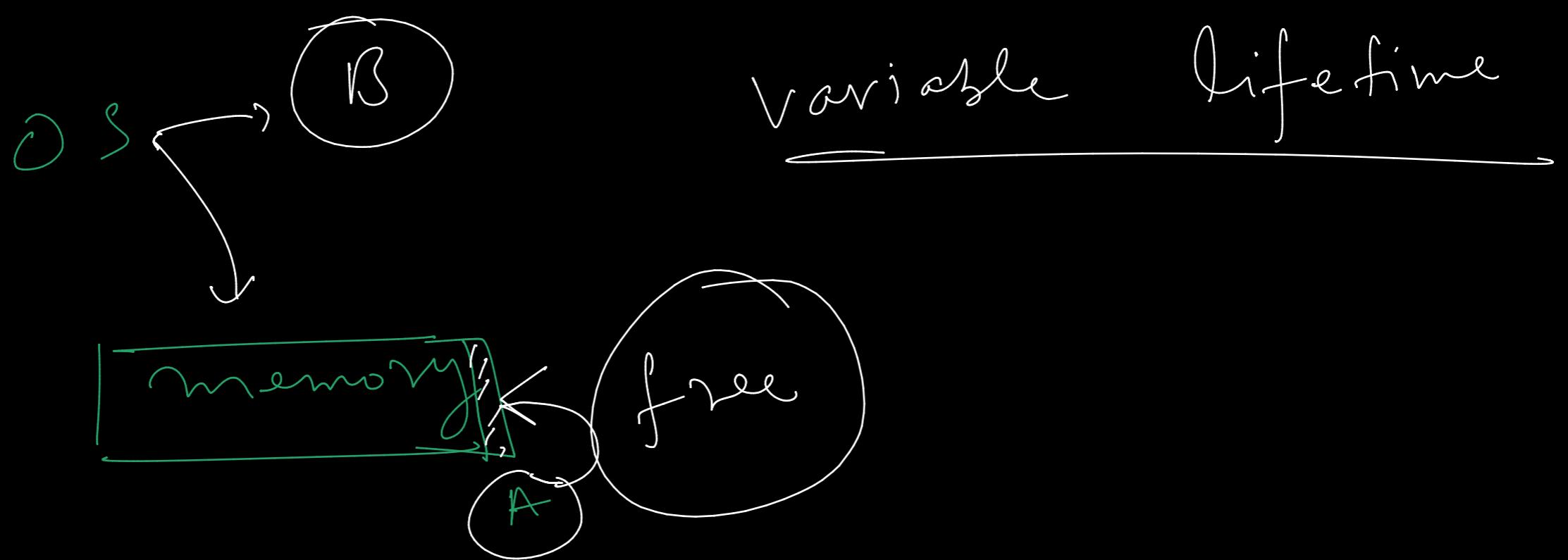
Basic → printf → if else ←  
                  Scanf                    for (loop)

↓                  while                Scope              variable  
pointer            do while            ← ← ←  
  |

arrays & string → functions .



int                                    unsigned int  
4 byte                              4 byte  
Machine decide                      Machine decide



→ all the variable will be freed once program exits.

There two types

↓ memory for my program

Stack

↳ managed automatically

heap

↳ managed by program

Stack Memory

int a = 5 ; → new allocation

int b = 6 ; → new allocation

a = 1 → no allocation.

{ int a = 5 ;      char b = 'G' ; }

fact n = 2.55 ;

Stack

variables on stack  
live within their scope.

{

This is a scope

This block

}

{

int a = 5;

{

int a = 5;

if (a == 5) {

int c = 6;

a += c;

{

a is not valid

a is valid

a is not valid

According to you:

a: 11, b: 6

error ✓



