Static → Variable

→ Data Members

→ Functions

Tava | C++ | // Defined Inside mein fin

// Belongs to a class Jun () 21 · fun () 9 int i=10; 22 - fun () Static Int j= 20; · fun() 23 1++; 1++; · fun() 24 cout<< i; cout<< j; Note: - Static persists throughout the program

but still Scope is within the function defined (Block)

Global

Scope: inside for Scope: Inside for Scope: Inside for Lifecycle: Throughout the program

Lifecycle: throughout the Lifecycle: Throughout the program

1 the program * Typical Example: void Gun 2() 2 void fun1() ?

Static int i=10;

cout<i; Static înt i= 20;

cout << i; int main (int argo, char ** argv) 2 fun1(); - 0/P: 10 2 fun2();

Static stays in class & not in object

Static for: These fins can dealed directly on class mame without creating objects;

Applications: [General Utility functions (stateless)]

Applications: [General Utility don't depend on any state

og Math. pow () they don't depend on any state a static for we this pointer inside it? 91) (an a " use non-static data member? - No 82) (an a non-static for use static data member? &3) (an -> Yes > static data members Static for's can we g Linked List 2 static class Node ? 3 psvm(-)? s jntd2 C ICIE — 3 sc ICR -- } static void fun()? dav d1x IC2 = new IC2(); " IC1 o1 = new IC1(); XC oly = new ((); obj. d1 = 100; object od IC1 = obj. new IC1(); Note: - Static Inner class can be called without oceating an oliged of outer class.

For Static: - oc.ic2 o1 = new oc.ic2(); For Non-Static: - oc.ic1 o1 = o. new ic1(); $\{ oc o = new oc(); \}$