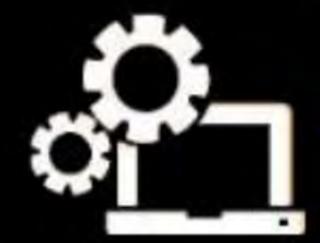
CS & IT



ENGINEERING

OPERATING SYSTEM



Process Concepts

Lecture No. 02



By- Dr. Khaleel Khan Sir



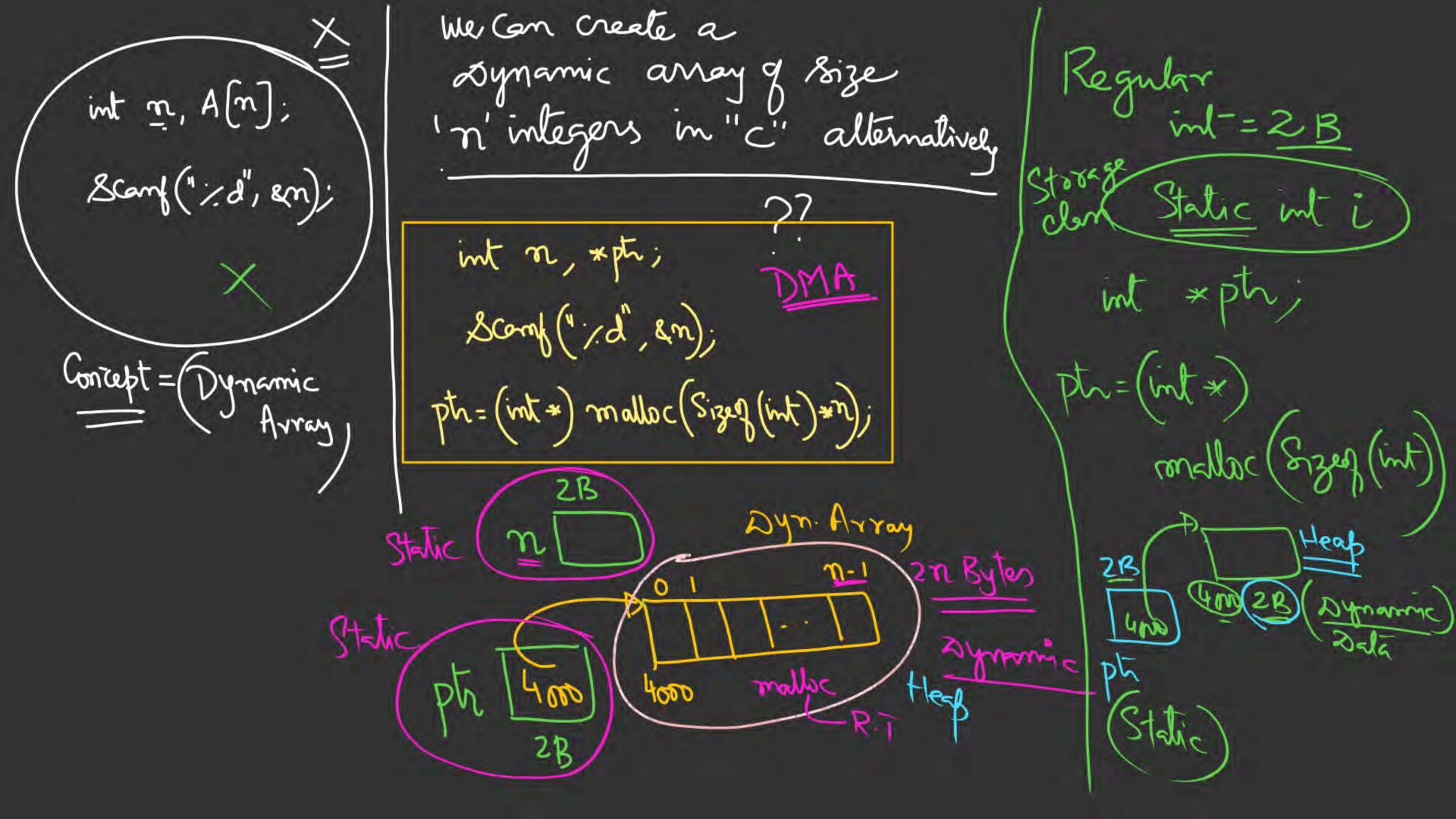
TOPICS TO BE COVERED Program Vs Process

Process as an ADT

Process State Transition

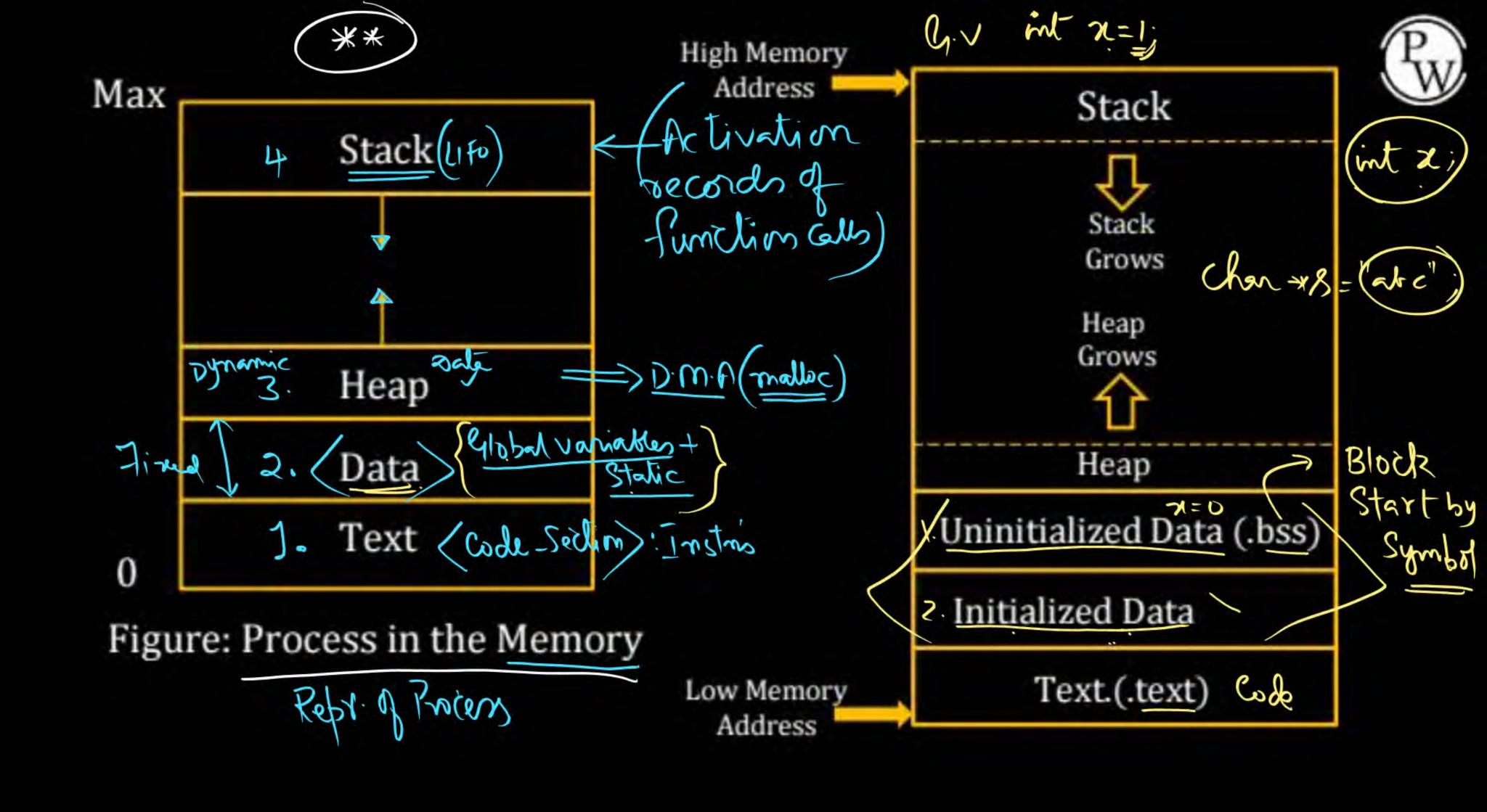
Diag.

Program in Execution: C=2; Desded from Disk to a= 5+c Wowser り、サイフ Iz: Load c, #2 Dynamic Is: Load RI, b -> Varying Size Hixed Size Jy: Load Rz, C Tixed Size Is: Add RI, RZ Known Size -> At Jun Jime MUL I6 Store a, R1 Load Time



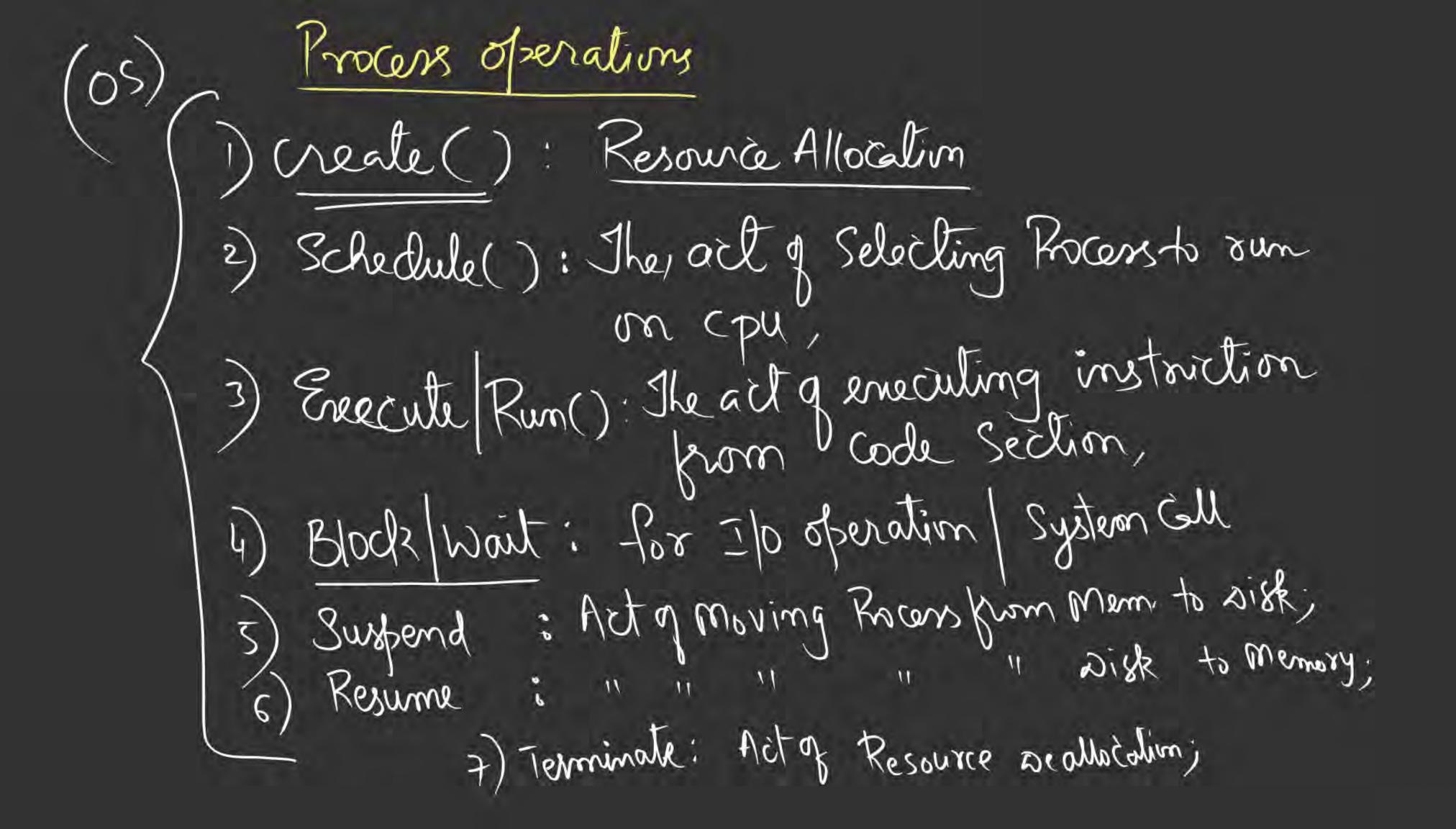
When it is using Resources of Computer, -> Program in Precution Rogram is parsove; Program on Disk; -> Knogram when it Memory gets located in Memory > Instante q a Bogram -> t/clive entity Always in Memory Locus of control os + (Animated Spirit) Kogram

Process from Developer's Perspective Developer's view of Process -> Process is an A.D.T: (Date Structure) Dept; Repr; operations;
Impl Attributes Process Structure in Memory? Repr. of Brocens in Mem Instru Date Dynamic Stalic



Stack Stack Heap

8.A: return Address <- A.R (main) 48+ STACK



PC: Frogram Process as an entity is associated with several (i) Identification: (Pid, PPid, gid, --> (cpu)
related
(ii) Cpu related: (PC: Priority; State; Burst time;
Tyke; Yeneral Register Set; (iii) Memosy related: <Size: limits: -.. (iv) 7ile 11: (list of 7iles): --: > (v) Accounting: < renounces...>

Pointer

Process State

Process number(id)

Process counter

Registers

Memory Limits

List of open files

...

PCB

Od-Grd

P.C.B < Process Control Block



Lo contains Attributes 9 Process

-> Each process has its own Per

-> PCB is Stored in Memos;



