* Longuage dimensions Syntax Semantics Sorveligns Sorveligns white space significant? sisthe language type safe? arithmatic safe?
scoping rule? support mutdility?
livet dass? encapsulation? memory visible? -> does it provide automatic memmory management? does it have extended library support? las it replace a trusking program Eg: Si-jalu eval ("1+2")

3 "string is being evaluated" Porodigues most longways are imperative (includes 00 Plany)

delevitive pervelignes include:

Functional, Logic lessel, constraint losed, Vetaflow

(hoskel) (prolog) (preadsheet) Concurrency what are rujety and lineaus properties?

Does the lary support distributed prog. verous network?

* Compilers

- usually set up us a driver program which
runs other seprate programs For ey: With Gcc 1. Compiler cc1: compiled *.c bile to *.s alsembly file 2. Allember: arsembles *.s file to *.o dyet file (vertiin import symbole) 3. Linter Id: links reveral object files to produce an executable Static linker Dynamic Linter - links in all object libs -links in all code produces fully self contained but only links in referrences executable to the libraries (at runtime) - Most modern systems use Uynousic linked libraries dis adv: PLL Hell a dv: Smother executables of possibility of having multiple concurrently executing programs share the name hibrary lode is memory.

() yhurnic short objects)

4. * Vemo program converts string to int main : c > atb returns f1. C -> returns a * b f2.C > Compiler Flow Source file Source lile Source file 1.2.c main-c Compiler Compiler Compiler breely like Assemble like Assembly bile main.s Asembles as Albember as Assembler as Libraries diet lile Object file object like 1 (prith ator) main. 0 a Runtime Libraries (pritt, stoi) Executables lynamic Linter) 34 -> input > RUN. 0 output ____ 19