Lecture - 03

Hogramming in C

Jokens in C a/ Identifiers de Reywords c) Constants Literal 2 Storings e> Special Symbols t> Openators

Constant/Literal: -> Those tokens whose values does Not Change during execution of a program Literaly Numeric Literals Shoot Characters Literal Character Constant

Sting Constant

Integer Constant: decimal -> Base -10 Ly Sequence of digit, trc, -ve One Single digit Can Consist the stange of 10 numbers -> No Decimal Point / No floating Point a) Deimal Integer: directly Represented by the number (25, 36, 72...) b) Octal Integer: One Single digit can consist the snampe of 8 numbers
(0 to 7) $\mathcal{E}_{\underline{x}} (25) \Rightarrow 0.25, (36) \Rightarrow 0.36$ In (-brogramming, (25) =) 025 leading number = 0

Ex
$$(37)_8 \Rightarrow 0_0 37$$
 $(-prog: (37)_8 \Rightarrow 037$

de Hexadecimal: Each Single digit can consists stange of 16 numbers.

i.e. 0 to F

 $(37)_{16} \Rightarrow 0 \times 37$
 0×6

Leading Number

$$(95A) \Rightarrow 0x95A$$

La The number having decimal [floating point A number having two parts

L. Integral Part & 72.185 Lo fractional Part =

Ez. -3.75, +21.78, 3.14159

Choracter Constant: Is the Constant that holds on alphanumenc values Ex 'A', 'B', '4', '\$', 'h' etc => Characters are represented within Single quotation Mank. Eze M= "T" Character Constant D = 1 R Character takes 1 Byte in memory.

ASCII

NULL terminated array of Character is Called String Yach Brithold Sequence of Alphammen'c element Sequence of Character = String Cz. Name = "Aditi": * String represented within double quotation mark. Subject = "Mathematics";

Data + Type = different type of dater String Nucl.

Linteger, float, Char, double, void, array, Pointer, function,

Attracture, enums. Unions.

Primitive Datatype [fundamental/Brimary]

Already defined by Gonfiler

En int, float, char,

double, void Non-binitive Dobatype =) Asseays, Pointers, functions. Derived Datatye, User defined => Structure, unions, enums Secondary Datatybe]

Les Built in datatyte • Integer type that short > Unig hea · float type / double - long · Void -> Rated (Noting)

Char - s 1 byte - Shirt 28 = 326 0+222 derived from Bremitive datatypes
3041401 Eint X = 25; likeral int X[2] = { sr, 30, 40, 50, 60}; X an 3 integer Jinteger Jinteger Jinteger

A Anney # Pointer # Junction At Structure J Similar
Dinion

Ehums