Unit 03: deepankar 5 gcc filename.c —0 filename Sunday, October 15, 2023 C compilera \$./Jilename (I) Turba C/C++ compiler D'Aracteratics of C 2) Lisual of Jusual C+t 2) Structure of a C Program (3) Eclipse margary ) in nur et chrammas (E) (4) Programming, Errora 4 Netteenna woing, Dubline Text Editor Mariables et Constants, C Reywords 6 GCC El clang Data Types Characteratica → high luvel programming-language, Dennis Ritchie (1972), ATEIT's Bell Labs (USA) traved son volder language, Basic Combined Programming Language (BCPL) (typeless) riginally Cavas wertten for UNIX operating, system Baad neur sab neur = Wundows, Linux, Mac OS reliablity, simplicity, Place of use. > structured programming language > portable > Reusablity (library files) Structure of a.C. magram -> extendelle procedural ariented language 1) commenta // 5 /\* \*/ 2 Preprocesser # include, # idefine Sectiona in a C. Program 1) Pocumentation mains comments (3) Hobal declaration 2 Preprocessor for including header files 4 main () { } junction 3 Definition of constants (5) War defined function 4 Illabal Declaration (b) main () function (Europanns (moer defined functions) Programming Ennoug. 1) Syntane Error # reported by compiler # incorrect syntax x = (a+b) = 3Demantic Error # reported les compiler # incorrect semanties -> samaj nhi aya Bidu (:) x+y=z; Run-Time Erzon # illegal operation, zuro division 4 Linker Erron # Linker generated, # include < juck. h > non existent 6 Logical Error # programmer hi chitya hai sum = a +b ; (1) keywords (reserve words => 32) C. Character Let 2 variables (1) 256 characters Jaligita (0-9) -) alphalieta (A-Z, a-Z) > special characters -> mulite spaces Brimary / Built-in: Int, wher, gloot, double, word Derived: Junction, pointer, array, reference Moer-Doniver : > structure, union, enum Variables El constants - Uniables are names given to the nemony locations that store data values. Identifiera > names of voriables (247 lettera) 1·42 e-4 alphanemenc -> constants are the values that remain constant/fixed value const post pi = 3.142; practional Jorn (0.000142) constant declaration Exponential John (1.42 e-4) Constanta in C Primary constants & Integer constants, Real constant, Character constant, String constants & Secondary Constants & Arrays, Pointers, Structure, Union, Enum?