High Level languages Low level > Mauhine language -> very close to hardware So lowleve Ls Assembly language Machine oriented 010001 Adv: Execution is fast Diadv: Not (010600001000000000000000000) understandable by homans · So cannot run in two different (· frograms written in ML machines i e not portable are system dependent TWIFS S M T W T F S S M T W T F S S M T W FEB 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 • •

Assembly language: In this language, we can use Coccintenent symbols (numbers i.e mnemonics (1+2) ADD SUB mor -s to move data from one register to another register io Readable by Human. But still is is Low Level long of Very Strong Birding with ML Migh Level Assumbly Lang Program 400 SUB Machine long MOV Hardware Assembler Didv: Cannot be directly executed M/c Caode on Machine : It is lower than ML language # Also dependent on machine / system 77 (Not portable) Every Assembly language designed specifically for a specific computer Architecture. To Overcome This I High Level languages C, CH, Java, Rythan, PHP, Roul JAN FSSMIWIFSSMIWIFSSMIWIFSSMIWIFSS 16 1 2 3 4 5 6 / 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 3 y 2010 Work to do High Level Languages:- [PORTABLE] Snot machine dependent But Sometimes 05 dependent &:- Windows Givery close to humans far from machine code. Memory Addresses, Registers, Machine Code - Low Level Variables, functions, loops, Mathematical expr > High Level Aphabets, Mathematical notations. 1) More like English Larguage La Higher Abstractions Li Need not to go much deeper - like - CPU Architecture Specification. Is Easy to remember Program written in high level y source code, Compiler - take six code & convert it into Object file objfile e machine code But only after Complete | WHOELE Program -sixt Converts. Machine will execute that · Interpreter program 4 reads line by line 13 Not Complete 4 Conversion to Mochine Code & execution runs parallely Bad ref High Level - Convert it into M/c code - Johnson FEB

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