SUBAIR CALEB

17/SCI01/078

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| ASSEMBLY LANGUAGE | MACHINE LANGUAGE | HIGH LEVEL LANGUAGE |
| A low level programming language in which each statement produces exactly one Machine instructions | Binary based language for representing Computer programs that the Computer can execute directly | More understandable and portable language in which each statement accomplish substantial tasks |
| Combines algebraic language (Is symbolic names are used to represent operations, registers & memory locations | Collection of binary numbers | expressions & symbols taken from English language |
| Assembler converts to machine  language | Directly understood by a computer | Compiler (or interpreter) converts to machine language |
| 1 assembly language instruction = 1 machine  language instruction |  | 1 HLL instruction = many machine language instructions |
| Not standard (Le. different machine language for every type of machine | Not standard (Le. different machine language for every type of machine | Standard (I.e. programs are independent of the machine on which they will be executed) |
| Example  MOV AX.A ADD AX 4 MOV A.AX | Example  10100001 0000000000000000 00000101 00000100 00000000 10100011 0000000000000000 | Example  A=A++ |