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MAT NO: 17/SCI01/018

ASSIGNMENT: Make Comparative analysis of Assembly language, Machine Language and High level langauges respectively.

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| Assembly language | High level language |
| Negligible abstraction with the computer language. | Strong abstraction with the computer language. |
| It does not make use of compiler and interpreters | It uses compiler as well as interpreter to convert instruction into machine code. |
| Low level language is difficult to use as it requires the elaborate technical details at each step. | It is a readable and machine friendly language that can be easily interpreted and executed |
| Faster execution of programs | slow execution of programs |
| Modification of programs is difficult | Easy modification of programs written in high level language. |
| It is closely related to hardware and hence used to write hardware programs | It has no correspondence with the hardware and used only to write software application programs |

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| Machine language | Assembly languaage |
| machine language ranks as the lowest level programming language. In this language, instructions are executed directly via the Central Processing Unit. | Assembly language refers to a low-level programming language that needs an assembler for converting the instructions to machine or object codes. |
| Machine language cannot be deciphered by humans and can be comprehended only by computers. | Assembly language can be understood, used, and applied by humans. |
| Machine languages comprise of binary digits 0s and 1s. | Assembly languages have a syntax that is similar to the English language; therefore, they can be understood by programmers and users alike. |
| Machine languages are platform-dependent, and their features vary accordingly. | Assembly language comprises of standard instruction sets. |