Classmate * System Brogramming and Operating System (5POS) - Assignment Number - 1 Name: - Staustuck Shrikant Habra.

Class: - Third Year Engineering.

Roll Number: - 38 Department:- lomputer Department Pollege:- AISSMS's IOIT. * List different components of system software. Compare machine language and assembly lanuage. -> System Software Components: System has three basic types of software: application programs, device drivers, and operating systems. Each type of software performs a completely different Job, but all three swork closely together to perform suseful work. While some special purpose program do not fit reatly into any of these classes, most software does. Programs run in the memory portion of the system. While running, programs are known as processes or jobs. The following illustration shows the relationship between the different. software programs and the hardware. Application Programs con perform specific tasks with these programs, such as wing a word processor for writing, a spreadsheet for accounting, or a computer-sided design program for drawing. The other two

CIASSMATE lowers, device drivers and the operating system, play important support roles. Your system might run one application program at a te or it might run many simultaneously. syntication programs structing system-An operating system is a collection of program that control the running of programs I and organizes the reasources of a computer These resourcess I have the hardware components the system, such as keyboard, printers, monitors, and disk drives. Your PAIX operating system comes with programs, called commands or utilities, that maintain your files, send and receive messages, provide miscellaneous information about your system, and so on. Comparison between Machine Learning and Assembly Larguage: Assembly Larrange Michine Leverina 1 Machine language is only understand by computers. Obeings I not by the computers.

		Date: Page:
0	In machine learning data only represented with the help Jox binary formate, hexadecimal and octadecimal.	In assembly language data can be represented with the help of menemonies such as Mov, Add, Sub, End etc.
		Assembly larguage is easy to understand by the human being as compare to machine larguage.
^		Modification and errors fixing can be done in assembly language.
	Machine language is very difficult to memorize so it is not possible to bear the machine language.	Paru to memorin the assemble language
6	Execution is fast in machine language	Execution is slow as compared to machine language.
3	There is no need of translator.	Assembler is used as translator to convert mnemonics into machine understandable form.
8		Assembly larguage is the machine dependent and it is I not portable.
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