PROGRAM 1(A&B)

FAMILIARIZATION WITH MICROCONTROLLER KIT AND SIMULATOR

AIM: To familiarization with microcontroller kit and simulator

SOFTWARE REQURIED:

SNO	NAME	QUANTITY
1	Keil software/EDSIM	1
2	Window Xp operating system	1

THEORY:

Earlier to Microcontrollers, Microprocessors were greatly used for each and every purpose. Microprocessors were containing ALU, general purpose register, stack pointer, program counter, clock counter and so many other features which the today's Microcontroller also possesses. But the difference between them exists with respect to the number of instructions, access times, size, reliability, PCB size and so on.

Microprocessor contains large instruction set called as CISC processor whereas Microcontroller contains less number of instructions and is called as RISC processor. The access time is less in case of microcontrollers compared to microprocessors and the PCB size reduces in case of microcontrollers. There are many versions of microcontrollers 8051, 80528751, AT8951 from Atmel Corporation and many more. In this manual we will study about the 8051 architecture, its features, programming and interfacing. MCS 8051 is an 8-bit single chip microcontroller with many built-in functions and is the core for all MCS-51 devices.

The main features of the 8051 core are:

1. Operates with single Power Supply +5V.
2. 8-bit CPU optimized for control applications.
3. 16-bit program counter (PC) and 16-bit data pointer (DPTR).
4. 8-bit program status word (PSW).
5. 8-bit stack pointer (SP).
6. 4K Bytes of On-Chip Program Memory (Internal ROM or EPROM).

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