EXP NO: 1a	8051 Assembly Language Addressing Mode Example
DATE	Program using Keil simulator

AIM:

To write 8051Assembly Language Addressing Mode example Program using Keil simulator and Execute it.

SOFTWARE REQUIRED:

S.No	Software Requirements	Quantity
1	Keilµvision5IDE	1

PROCEDURE

- 1. Create a new project, go to "Project" and close the current project "Close Project".
- Next Go to the Project New μ Vision Project and Create New Project Select Device for Target.
- 3. Select the device AT89C51ED2 or AT89C51 or AT89C52
- 4. Add Startup file next go to "File" and click "New".
- 5. Write a program on the editor window and save it with .asm extension.
- 6. Add this source file to Group and click on "BuildTarget" or F7.
- 7. Go to debugging mode to see the result of simulation clicking Run or step run.

PROGRAM:

1. Immediate Addressing Mode

MOV A,#20h MOV R0,#15

MOV P0.#07h

MOV 20h,#05h

2. Register Addressing Mode

MOV r0,#02h

MOV A,#30h

ADD a,r0

3. Direct Addressing Mode

MOV a,30h MOV b,31h ADD A,b

4. Indirect Addressing Mode

mov r0, #30h back: mov a,@r0 inc r0 sjmp back

5.Index Addressing Mode

mov dptr,#40h back1: movc a,@a+dptr inc dptr mov a,#0h sjmp back1

org 0040h

mydata: db 1,2,3,4,5,6,7,8,10

END

OUTPUT: