| EXP NO: 3 | Perform ALU operations |
|-----------|------------------------|
| DATE | Terrorm ALO operations |

AIM:

1. To write 8051Assembly Language Program for Perform ALU operations 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".
- 2. 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:

ORG 0000H

CLR C

//ADDITION

MOV A, #20H

ADD A, #21H

MOV 41H, A

//SUBTRACTION

MOV A, #20H

SUBB A, #18H

MOV 42H, A

//MULTIPLICATION

MOV A, #03H

MOV B, #04H

MUL AB

MOV 43H, A

//DIVISION

MOV A, #95H

MOV B, #10H

DIV AB

MOV 44H, A

MOV 45H, B

//AND

MOV A, #25H

MOV B, #12H

ANL A, B

MOV 46H, A

//OR

MOV A, #25H

MOV B, #15H

ORL A, B

MOV 47H, A

//XOR

MOV A, #45H

MOV B, #67H

XRL A, B

MOV 48H, A

//NOT MOV A, #45H CPL A MOV 49H, A END

OUTPUT:

RESULT: