

Name: Tanmay Vig

Roll No: 19BCS061

Class: 3rd year B. Tech CSE

Experiment No 7: To design and implement an Embedded System that displays the roll no and name on LCD screen using 8051 microcontrollers.

Stuff Required: KEIL μ VISION IDE.

Program:

C code:

```
#include <lcd.h>

void main(void) {
    LCD_INIT();
    LCD_WRITE("Tanmay Vig",0,0);
    LCD_WRITE("19BCS061",1,0);
    while(1);
}
```

HEX code:

```
:10095D0054616E6D61792056696700313942435398
:0D096D0030363100C0801014181C0F01023C
:0609BE00010E00010D0016
:10091D00E4FDFCC3ED9FEC9E5015E4FBFA0BBB0010
:0F092D00010AEB64644A70F50DBD00010C80E413
:01093C002298
:0C09B200D2827F0A7E0012091DC2822240
:1008D900A907E4F580C282C280C281E954F04408C4
:1008E900F5801209B2E9540FC454F04408F58002A6
:0208F90009B242
:1008B600C282C280C2817580201209B27F011208ED
:1008C600D9900977E493FF1208D9900979E493FF48
:0308D6000208D93C
:1008FB00A907758001C282D280C281E954F04409F4
:10090B00F5801209B2E9540FC454F04409F5800282
:02091B0009B21F
:10099300AE05EF6003430640430680AF060208D965
:10088C008B088A09890AAF05AD0C120993AB08AA2B
:10089C0009A90A12097AFF60101208FB7401250AD3
:0A08AC00F50AE43509F50980E4229D
:0F09A300900973E493FF1208D9E493FF0208D977
:10093D001208B67BFF7A09795DE4F50CFD12088C7F
:10094D007BFF7A097968E4F50C7D0112088C80FE35
:03000000020800F3
:0C080000787FE4F6D8FD75810F020847F0
```

:10097A00BB010689828A83E0225002E722BBFE027B
:09098A00E32289828A83E49322AE
:10080C0002093DE493A3F8E493A34003F68001F2BC
:10081C0008DFF48029E493A3F85407240CC8C333ED
:10082C00C4540F4420C8834004F456800146F6DFBC
:10083C00E4800B01020408102040809009BEE47E85
:10084C00019360BCA3FF543F30E509541FFEE493B1
:10085C00A360010ECF54C025E060A840B8E493A378
:10086C00FAE493A3F8E493A3C8C582C8CAC583CAA3
:10087C00F0A3C8C582C8CAC583CADFE9DEE780BE5B
:0109C4000032
:00000001FF

Result:

Name and Roll No. are printed on LCD screen