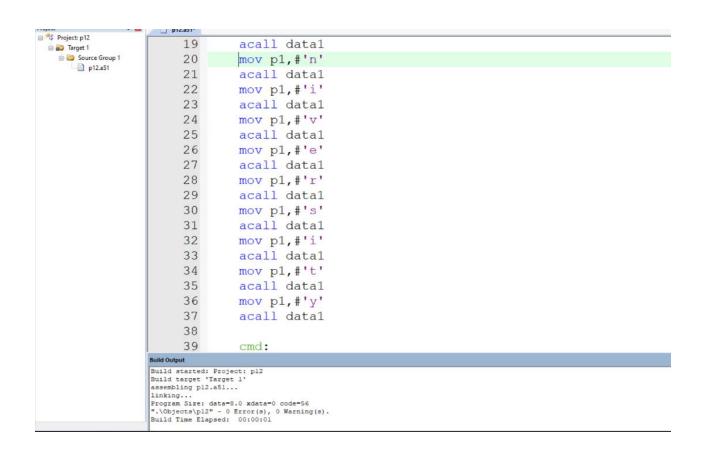
### Program 12:To display RK University on LCD screen:

```
p12.a51*

☐ 🍪 Project: p12

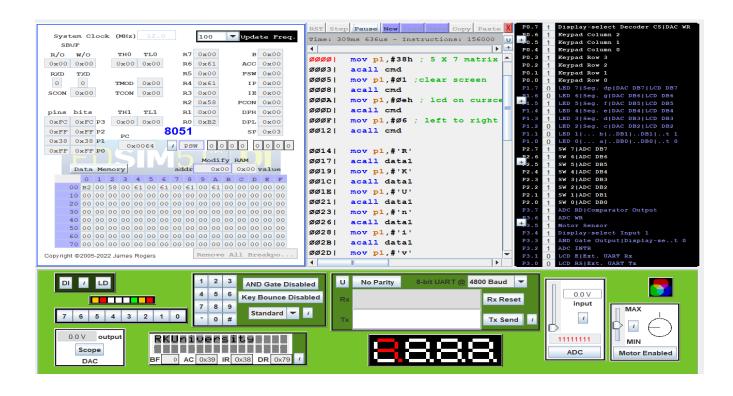
                           1 ; Program 12:To display RK Unversity on LCD screen:
                                                                                                         (Liquid Crystal Display);
 ☐ 🔊 Target 1
   Source Group 1
                           2 ; Name : Sarfaraj Ansari
                           3 ;Enroll no: 22SDSCE01222
                           4 org 0000h
                           5
                                    mov p1, #38h ; 5 X 7 matrix LCD
                            6
                                    acall cmd
                           7
                                   mov p1, #01 ; clear screen
                           8
                                   acall cmd
                           9
                                  mov p1, #0eh ; lcd on curscer on
                          10
                                   acall cmd
                          11
                                   mov p1, #06; left to right shift
                          12
                                    acall cmd
                          13
                          14
                                    mov p1, #'R'
                                    acall data1
                          15
                          16
                                    mov p1, #'K'
                          17
                                    acall data1
                          18
                                    mov p1, #'U'
                          19
                                    acall data1
                          20
                                    mov p1, #'n'
                          21
                                    acall data1
                    Build started: Project: p12
Build target 'Target 1'
assembling p12.a51...
linking...
Program Size: data=0. xdata=0 code=56
".\Objects.p12" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:01
```



```
Project

☐ <sup>4</sup> Project: p12
                    p12.a51*
                                    37
                                                  acall data1
   □ A Target 1
     Source Gro
                                    39
                                                  cmd:
                                    40
                                                  clr p3.0
                                    41
                                                  setb p3.1
                                    42
                                                  clr p3.1
                                    43
                                                  acall delay
                                    44
                                                  ret
                                    45
                                                 data1:
                                    46
                                                 setb p3.0
                                    47
                                                 setb p3.1
                                    48
                                                  clr p3.1
                                                 acall delay
                                    49
                                    50
                                                  ret
                                    51
                                    52
                                                 delay:
                                    53
                                                  mov r0, #0ffh
                                    54
                                                  here:djnz r0,here
                                    55
                                    56
                                    57
                                                  end
                             Build started: Project: pl2
Build target 'Target 1'
assembling pl2.a51...
                            assembling plc.sol...
linking...
Program Size: data=8.0 xdata=0 code=56
".\Objects\pl2" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:01
```

#### Output:



# Program 13:To display first and last name on LCD screen:

```
Project

To Project p13

To Project p13

Source Group 1
           ₽ II p13.a51*
                      1 ; Program 13: To display first and last name
                      2 ; on LCD screen:
                      3 ; (Liquid Crystal Display);
                      4 ; Name : Sarfaraj Ansari
                      5 ; Enroll no: 22SDSCE01222
                      6 org 0000h
                      7
                               mov p1, #38h; 5 X 7 matrix LCD
                      8
                               acall cmd
                      9
                               mov p1, #01 ; clear screen
                     10
                               acall cmd
                     11
                               mov p1, #0eh ; lcd on curscer on
                     12
                               acall cmd
                     13
                               mov p1, #06; left to right shift
                               acall cmd
               linking...
Program Size: data=8.0 xdata=0 code=118
".\Objects\pl3" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:01
```

```
☑ D:\22SDSCE01222_KEIL\p13\p13.uvproj - μVision [Non-Commercial Use License]

☑ ■ ♣ Ø • ○ Ø æ • □ ■ • 
Project

Project: p13
 Target 1
Source Group
p13.a51
                         16
                                      acall data1
                         17
                                     mov p1, #'A'
                         18
                                     acall data1
                         19
                                    mov p1, #'R'
                         20
                                    acall data1
                         21
                                    mov p1, #'F'
                         22
                                     acall data1
                                    mov p1, #'A'
                         23
                         24
                                     acall data1
                         25
                                    mov p1, #'R'
                         26
                                     acall data1
                         27
                                    mov p1, #'A'
                         28
                                     acall data1
                         29
                                    mov p1, #'Z'
                         30
                                     acall data1
                  Build started: Project: pl3
Build target 'Target 1'
assembling pl3.a51...
linking...
Program Size: da=8.0 xdata=0 code=118
".Objects/pl3" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:01
```

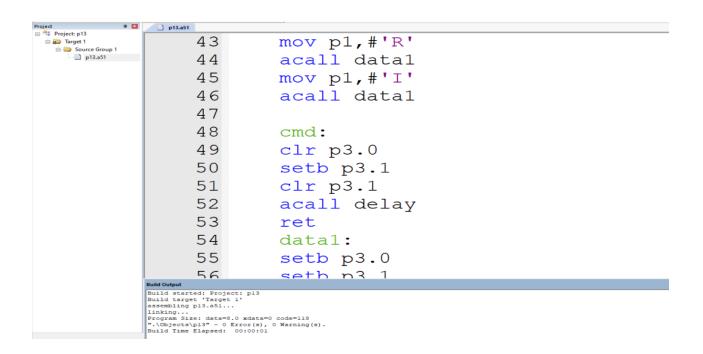
```
Project

** Project: p13

** Target 1

** Source Group 1

** p13.a51
              p13.a51
                                29
                                               mov p1, #'Z'
                                30
                                               acall data1
                                31
                                32
                                               mov p1, #0c0h
                                33
                                               acall cmd
                                34
                                35
                                              mov p1, #'A'
                                              acall data1
                                36
                                37
                                               mov p1, #'N'
                                               acall data1
                                38
                                              mov p1, #'S'
                                39
                                40
                                               acall data1
                                41
                                              mov p1, #'A'
                                42
                                               acall data1
                                43
                                               mov p1, #'R'
                       Build started: Project: pl3
Build target 'Target 1'
assembling pl3.a51...
linking...
Frogram Size: data=8.0 xdata=0 code=118
".\Objects\pl3" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00100101
```



```
Project

Project p13

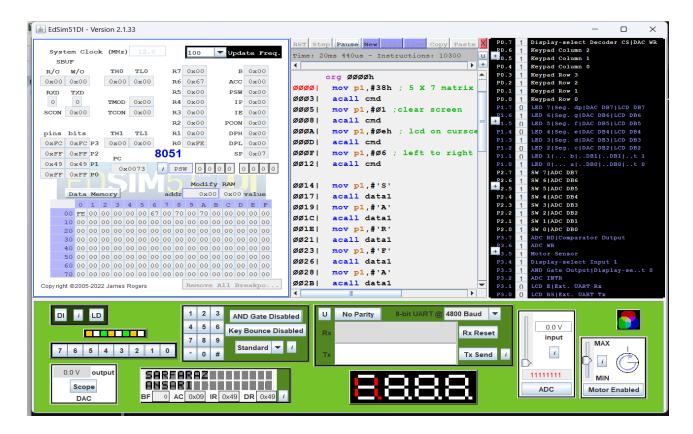
Project p13

Source Group

p13.a51
                           p13.a51
                                      54
                                                        data1:
                                      55
                                                        setb p3.0
                                                        setb p3.1
                                      56
                                      57
                                                        clr p3.1
                                      58
                                                        acall delay
                                      59
                                                        ret
                                      60
                                      61
                                                        delay:
                                                        mov r0, #0ffh
                                      62
                                      63
                                                        here:djnz r0,here
                                      64
                                                        ret
                                      65
                                      66
                                                        end
                            uild started: Project: pl3
uild target 'Target 1'
ssembling pl3.a51...
inking...
rogram Size: data=8.0 xdata=0 code=118
.vobjects(pl3" - 0 Error(s), 0 Warning(s).
uild Time Elapsed: 00:00:016
```

## **Output:**

`



## Program 15: To interface switch with 8051;

```
File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

| Social Control of the C
                                                                                                                                                                                                              Project

Project: p15
      Target 1

Source Group
p15.a51
                                                                                                      1 ; to display you branch and semester on
                                                                                                     2 ; Progaram 15: To interface switch with 8051:
                                                                                                     3 ; Name : Sarfaraj Ansari
                                                                                                     4 ; Enroll: 22SDSCE01222
                                                                                                     5 org 0000h
                                                                                                      6
                                                                                                                                           mov p1, #0ffh ; leds will turn off
                                                                                                     7
                                                                                                                                            a5:jb p2.2,a1
                                                                                                                                          clr p1.2
                                                                                                     8
                                                                                                     9
                                                                                                                                          a1:jnb p2.2,a2
                                                                                              10
                                                                                                                                         setb p1.2
                                                                                              11
                                                                                                                                         a2:jb p2.1,a3
                                                                                              12
                                                                                                                                       clr p1.1
                                                                                              13
                                                                                                                                       a3:jnb p2.1,a4
                                                                                              14
                                                                                                                                     setb p1.1
                                                                                              15
                                                                                                                                         a4:ajmp a5
                                                                                                                                   end
                                                                                              16
```

#### **Output:**

