→Building a Mod 99 counter and displaying the count using Seven segment Display via AT89C51 (8051 Microcontroller family) in keil Micro-vision Software and stimulation using proteus software:

## software:-Code: org 00h start: mov r1,#10h mov dptr,#400h back: clr a movc a,@a+dptr mov b,a mov p2,b push dpl bit2: mov r5,#10 mov dptr,#400h back2: mov a,00h movc a,@a+dptr mov p3,a acall delay inc dptr djnz r5,back2 pop dpl inc dptr mov a,dpl cjne a,#0Ah,label mov dpl,#00h label: djnz r1,back sjmp start org 400h

db 3fh,06h,5bh,4fh,66h,6dh,7dh,07h,7fh,6fh

delay: mov r2,#08h up2:

up1: mov r3,#08fh

mov r4,#0ffh

here: djnz r3,here djnz r4,up1 djnz r2,up2 ret end

## Screenshots:-

```
sevenmodnintynine.asm* STARTUP.A51
   1 org 00h
   2 start:
   3 mov rl,#10h
  4 mov dptr, #400h
  5
   6 back:
   7 clr a
  8 movc a,@a+dptr
  9 mov b,a
  10 mov p2,b
  11 push dpl
 12
  13 bit2:
  14 mov r5,#10
  15 mov dptr, #400h
 16
  17 back2:
  18 mov a,00h
  19 movc a, @a+dptr
 20 mov p3,a
  21 acall delay
  22 inc dptr
  23 djnz r5,back2
  25 pop dpl
  26 inc dptr
  27 mov a,dpl
 28 cjne a, #0Ah, label
29 mov dpl, #00h
  30 label:
  31 djnz rl,back
  32 sjmp start
  33
  34 org 400h
  35 db 3fh,06h,5bh,4fh,66h,6dh,7dh,07h,7fh,6fh
  37 delay:
  38
  39 mov r2, #08h
  40 up2:
  41 mov r4, #0ffh
  42
  43 upl:
  44 mov r3, #08fh
  45
  46 here:
  47 djnz r3,here
  48 djnz r4,upl
  49 djnz r2, up2
  50 ret
  51 end
```









