

PRACTICAL – 30

AIM: Write an assembly language program to Display Digits 0 1 2 3 4 5 6 7 8 9 A B C D E F on port 01H with 500ms of delay

CODE:

```
org 100h
```

```
mov dx,'0'
```

```
mov bx,3Ah
```

```
rep:
```

```
mov ah, 6
```

```
int 21h
```

```
mov cx,70h
```

```
    d:
```

```
    dec cx
```

```
    jnz d
```

```
inc dl
```

```
cmp dx,bx
```

```
jnz rep
```

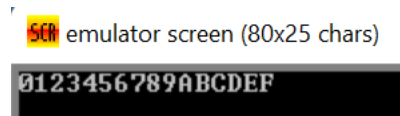
```
mov dl,'A'  
mov bl,47h
```

```
rep2:  
mov ah, 6  
int 21h  
mov cx,70h
```

```
    d2:  
    dec cx  
    jnz d2
```

```
inc dl  
cmp dl,bl  
jnz rep2  
jz exit  
exit:  
ret
```

OUTPUT:

 emulator screen (80x25 chars)

0123456789ABCDEF

CONCLUSION: In this Practical we learnt assembly language program to Display Digits