Name: Prabodh Wankhede

Roll no. 57

Class: SE(B)

Batch – B3

Assignment No. 12

Problem Statement: Write 8086 ALP to implement multitasking, where each task is supposed to change the color of text displayed at the center of the screen.

**Code:**

code segment

assume cs:code,ds:code

start: mov ax,cs

mov ds,ax

mov cl,0

mov ch,0

task1: inc cl

cmp cl,09

je exit

mov ax,0b800h

mov es,ax

mov si,1830 ;

mov al,'\*'

mov ah,93h

mov es:[si],ax

inc bl

mov al,bl

add al,30h

mov ah,93h

inc si

inc si

mov es:[si],ax

call delay

jmp task2

task2: inc ch

cmp ch,09

je exit

mov ax,0b800h

mov es,ax

mov si,840

mov al,'$'

mov ah,0A1h

mov es:[si],ax

inc bh

mov al,bh

add al,30h

mov ah,0A1h

inc si

inc si

mov es:[si],ax

call delay

jmp task1

delay proc near

mov ax,0fffh

d2:mov dx,0fffh

d1:nop

nop

nop

nop

dec dx

jnz d1

dec ax

jnz d2

ret

endp

exit:

mov ah,4ch

int 21h

code ends

end start

**Output:**