Write a TSR to generate the pattern of the frequency tones by reading the Real Time Clock (RTC). The duration of the each tone is solely decided by the programmer

```
.model tiny
.code
ORG 0100h
start:
 jmp trans
  intvect dd?
 temp db 00h
  hr db?
  min db?
  sec db?
resi:
 push ax
 push bx
 push cx
 push dx
 push si
 push di
 push sp
 push bp
 push ss
 push ds
 push es
 mov ah,02h; read real time clock
 int 1Ah
 mov cs:hr,ch
 mov cs:min,cl
 mov cs:sec,dh
 inc cs:temp
 mov ax,0B800h ;set AX to hexadecimal value of B800h for graphics mode.
 mov es,ax
 mov di,0100
 mov al,cs:hr
 and al,0F0h
 mov cl,04h
 shr al,cl
 add al,30h
 mov es:[di],al
 inc di
 inc di
```

mov al,cs:hr and al,0Fh add al,30h mov es:[di],al inc di inc di

mov al,':'
mov es:[di],al

inc di inc di

mov al,cs:min and al,0F0h mov cl,04h shr al,cl add al,30h mov es:[di],al inc di inc di

mov al,cs:min and al,0Fh add al,30h mov es:[di],al inc di inc di

mov al,':'
mov es:[di],al
inc di
inc di

mov al,cs:sec and al,0F0h mov cl,04h shr al,cl add al,30h mov es:[di],al inc di inc di

mov al,cs:sec and al,0Fh add al,30h mov es:[di],al

cmp cs:temp,100

```
mov cs:temp,00h
   ret
trans:
  cli
  mov ah,35h
  mov al,08h
  int 21h
  mov word ptr intvect,bx
  mov word ptr intvect+2,es
  mov ah,25h
  mov al,08h
  mov dx,offset resi
  int 21h
  mov ah,31h
  mov al,00h
  mov dx,offset trans
  sti
  int 21h
end start
RUN:
MOUNT c c:\tasm
tasm timer.asm
tlink timer
timer
```

**OUTPUT**:

