```
.MODEL TINY
.286
ORG 100H
CODE SEGMENT
     ASSUME CS:CODE, DS:CODE, ES:CODE
        OLD IP DW 00
        OLD CS DW 00
JMP INIT
MY TSR:
        PUSH AX
        PUSH BX
        PUSH CX
        PUSH DX
        PUSH SI
        PUSH DI
        PUSH ES
                       ;Address of Video RAM
        MOV AX, 0B800H
        MOV ES, AX
        MOV DI, 3650
        MOV AH, 02H
                             ;To Get System Clock
        INT 1AH
                              ;CH=Hrs, CL=Mins,DH=Sec
        MOV BX,CX
        MOV CL, 2
LOOP1: ROL BH, 4
        MOV AL, BH
        AND AL, OFH
        ADD AL, 30H
        MOV AH, 17H
        MOV ES: [DI], AX
        INC DI
        INC DI
        DEC CL
        JNZ LOOP1
```

```
MOV AL, ':'
```

MOV AH, 97H

MOV ES: [DI], AX

INC DI

INC DI

MOV CL, 2

LOOP2: ROL BL, 4

MOV AL, BL

AND AL, OFH

ADD AL, 30H

MOV AH, 17H

MOV ES: [DI], AX

INC DI

INC DI

DEC CL

JNZ LOOP2

MOV AL, ':'

MOV AH, 97H

MOV ES: [DI], AX

INC DI

INC DI

MOV CL, 2

MOV BL, DH

LOOP3: ROL BL, 4

MOV AL, BL

AND AL, OFH

ADD AL, 30H

MOV AH, 17H

MOV ES: [DI], AX

INC DI

INC DI

DEC CL

JNZ LOOP3

POP ES
POP DI
POP SI
POP CX
POP BX
POP AX

INIT:

MOV AX,CS
MOV DS,AX

CLI

CLI

Clear Interrupt Flag

MOV AH,35H

Get Interrupt vector Data and store it

MOV AL,08H
INT 21H

MOV OLD_IP,BX
MOV OLD_CS,ES

MOV AH,25H

;Set new Interrupt vector

MOV AH, 25H
MOV AL, 08H
LEA DX, MY_TSR
INT 21H

MOV AH, 31H ; Make program Transient

MOV DX,OFFSET INIT STI

INT 21H

CODE ENDS

END