.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

MOV AX,0B800H ;Address of Video RAM

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,0FH

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,0FH

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,0FH

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 DX

POP CX

POP BX

POP AX

INIT:

MOV AX,CS ;Initialize code and data

MOV DS,AX

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 AL,08H

LEA DX,MY\_TSR

INT 21H

MOV AH,31H ;Make program Transient

MOV DX,OFFSET INIT

STI

INT 21H

CODE ENDS

END