

Assignment -13

Title: Write a TSR program.

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

Objective: To understand Terminate but Stay Resident program.

Outcome: - Students will study Terminate but Stay frogram for implementing Real Time Clak.

Concept Related Theory:-Structure of Program in Tasm. "MODEL STALL

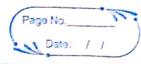
- · STACK 50h
 · DATA OF DATA SEGMENT
 · CODE OF GEGMENT

START

· Your rode goes here...

mov ax, 4000h

END START



	Date: / /
	Possible MODELS are:
(1)	TINY: Code and Data must fit in same 64 k
	TINY: (ode and Data must fit in same 64 k Segment. Both (ode and Data are NEAR
(2)	SMALL: (ode and Data have separate segment but must be each less than 64k. Both code and Data are NEAR. For most applications, this will be sufficient:
10.4	but must be each less than 64k. Both code and
	Data are NEAK. For most applications, this will
N/A	be sufficient.
(3)	MCNIIM. (10 00 10 10 10 10 10 10 10 10 10 10 10
	MEDIUM: (ode may be larger than 64 k, but data has to be less than 64 k, (ode is FAR and
	data is NEAR.
4-	MACCO DI TOCHIA.
(4)	COMPACT: lade in land than 64 K. Gut Norta manife
\	COMPACT: (ode is less than 64 K, Gut Doita may be greater than 64 K code is NEAR, Data is FAR.
(5)	LARGE: Both Code and Data can be greater than 64K Both are FAR, but a single array cannot be greater than 64K.
	byk Both are FAR, but a single array connot be
94	greater than 64K.
(6)	HUGE: Same as LARGE, but arrays can be greater than 64K.
	Than buk.
_	T. i.t. 1 Cta. D. 1 + CTCP) call solers
ð	Terminate and Stay Resident (TSR) generally refers to a special class of programs for PC-compatible computers running DOS.
	computers are not programs for re-computers
	wigovas rawing pos.



When a user exits a normal program runing in DOS, the memory that the program used is usually fred for other programs and tasks; therefore the program must be reloaded from a disk back so into memory for it to be used again. when you run a TSR program, however, it looks itself into the computers memory and remains there for later use. You may run other programs while the TSR is still alive in memory, and these programs may irrobe the TSR or be affected by the behavior of the TSR program. For this reason, TSR program may give DOS the appearance of multitasking (the ability to perform several tasks at once) which is built into many other operating cystems.

You may use TSR programs for a wide variety of tashs. Some of these programs are octive only when you press a hot key (a special key or combination of keystrches that activates the TSR). An example would be a pop-up (alculator program that appears on the ween whenever you press Alt-shift-c, even from within a separate word processing program. Other TSR programs run continuously in the background and may normally be invisible. Examples of such programs that monitor are some notwork and communications programs and special virus scanner programs that monitor the use of a computer's memory and



dick drives, Still other TSR programs may operate in both ways.

· TSR programs may be quite complex, and are often difficult to program reliably. TSR programmers must make sure that their program do not conflict with other programs active in the computer's memony. The TSR must also not interfere with other program's use of the disk drives or other hardware.

Key-logger is a type of surreillance software (considered to be either software or spyware) that has the capability to record every hugstroke you make to a log file, curually encrypted. A key-logger recorder can record instant message, e-mail, and any information you type at any time using keyboard.

Conclusion: We have understood what TSR (Terminate but Stay Resident) - is and have used it to implement heal Time Clock