

Assignment 12

- Title:
Terminate but Stay Resident Program (TSR)
- Problem Statement:
Write a terminate but stay resident (TSR) program for a key-logger. The key-passes during the stipulated time need to be displayed at the center of the screen
- Objective:
To understand terminate but stay resident program.
- Theory:

TSR generally refers to special class of program for PC-compatible computers running Dos

When a user exits a normal program running in Dos, the memory that the program used is usually freed for other programs & tasks, therefore the program must be reloaded from a disk back into memory location.

When you run a TSR program however it loads itself into computer's memory & remains there for later use.

TSR programs may be quite complex & are often difficult to program reliability. TSR programmers must make sure that their programs do not conflict with other programs active the computer's memory. The TSR must also not interfere with other programs.

- Key-logger:

key-logger is a type of surveillance software that has capability to record every keystroke you make to a .log file, usually encrypted. The keylogger recorder can record message, email and any information you type at any time using your keyboard.

- Algorithm:

1. Far jump to transient portion of memory
2. Clear IF
3. Get vector address
4. Save vector address
5. Set new vector address
6. Make program resident

- Test Cases:

Input	Actual o/p	Expected o/p
TLINK ASS12.0	Linkable to open	Yes
TLINK ASS12.exe	Unable to open	Yes
TLINK ASS12.exe	Unable to open	Yes
ASS12.exe	Illegal command	Yes
TLINK ASS12.obj	Warning	Yes
ASS12.exe	09:07:33 (Time)	Yes

Conclusion:

We have successfully written a terminate but stay resident program for a key logger.