**TASK 1:**

**Rewrite the following task for me. Take any exe file i.e notepad.exe read it in binary mode. And read and print the DOS header from it. Please use Data-Structures and avoid GPT for this task.**

For Reference  <https://en.wikipedia.org/wiki/Portable_Executable#/media/File:Portable_Executable_32_bit_Structure_in_SVG_fixed.svg>

[PE Format - Win32 apps | Microsoft Learn](https://learn.microsoft.com/en-us/windows/win32/debug/pe-format)

Template( C ):  
  
typedef struct \_IMAGE\_DOS\_HEADER {      // DOS .EXE header

    WORD   e\_magic;                     // Magic number

    WORD   e\_cblp;                      // Bytes on last page of file

    WORD   e\_cp;                        // Pages in file

    WORD   e\_crlc;                      // Relocations

    WORD   e\_cparhdr;                   // Size of header in paragraphs

    WORD   e\_minalloc;                  // Minimum extra paragraphs needed

    WORD   e\_maxalloc;                  // Maximum extra paragraphs needed

    WORD   e\_ss;                        // Initial (relative) SS value

    WORD   e\_sp;                        // Initial SP value

    WORD   e\_csum;                      // Checksum

    WORD   e\_ip;                        // Initial IP value

    WORD   e\_cs;                        // Initial (relative) CS value

    WORD   e\_lfarlc;                    // File address of relocation table

    WORD   e\_ovno;                      // Overlay number

    WORD   e\_res[4];                    // Reserved words

    WORD   e\_oemid;                     // OEM identifier (for e\_oeminfo)

    WORD   e\_oeminfo;                   // OEM information; e\_oemid specific

    WORD   e\_res2[10];                  // Reserved words

    LONG   e\_lfanew;                    // File address of new exe header

  } IMAGE\_DOS\_HEADER, \*PIMAGE\_DOS\_HEADER;