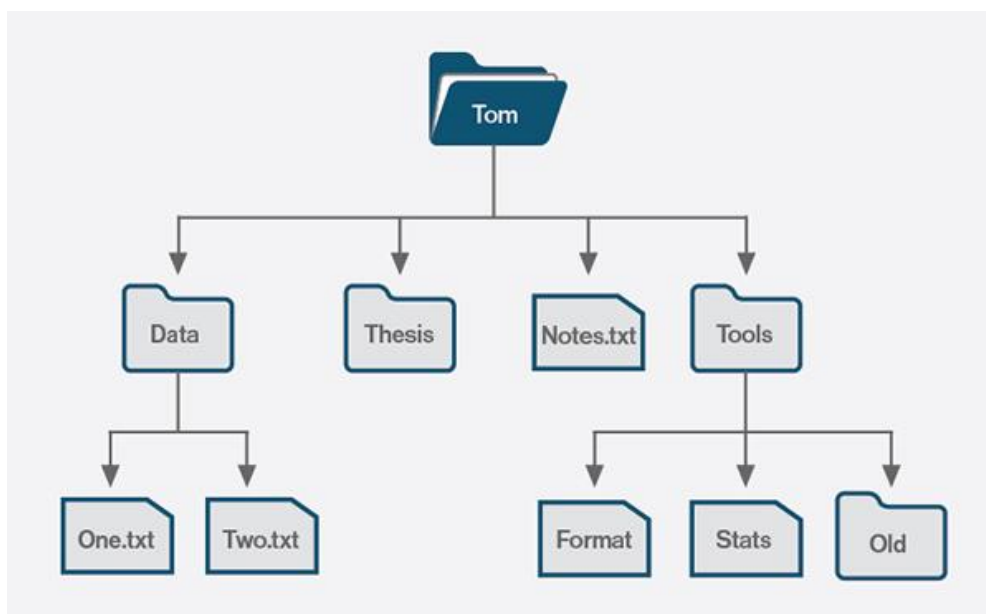**Answer on Question #52529 – Programming – Other**

what does the OS know about files?

Solution:

Deadlock Conditions

DOS, Windows, OS/2, Macintosh and Unix-based operating systems (OSes) all have **file systems** in which files are placed somewhere in a hierarchical (tree) structure. A file is placed in a directory (folder in Windows) or subdirectory at the desired place in the tree structure.

File systems specify conventions for naming files, including the maximum number of characters in a name, which characters can be used and, in some systems, how long the file name suffix can be. A file system also includes a format for specifying the path to a file through the structure of directories.

File systems use **metadata** to store and retrieve files. Some examples of metadata tags **include**:

1. Date created
2. Date modified
3. File size