

Q1>

List some of the software for recovering deleted files.

ANS.

- When Files or Entire partition are deleted, they are not always erased immediately from the storage device.
- Instead, the system usually removes the references to the data in the file allocation table, while the actual data may remain on the disk until it is overwritten.
- This makes it possible to use specialized software tools to recover the deleted files or data.

⇒ Some of the tools are as follows: -

(1) EraseUS Data Recovery Wizard

- This tool is well known for its simple UI, making it accessible for beginners. It supports recovering deleted, formatted or even lost partitions.
- It can recover files from FAT, NTFS, HFS+, Ext2, Ext3 making it suitable for Mac and Windows users.

(2) ~~It is light~~ Recuva

- It is a lightweight tool, easy to use.
- Popular for quick recovery tasks such as restoring files deleted from Recycle Bin, USB drives, and memory cards.

(3) Stellar Data Recovery

- It is a professional recovery tool used by IT professionals and forensic experts because it can recover data from formatted, corrupted or encrypted drives or devices.

Q2>

Examples of File Systems.

ANS.

- A File System is a method and data structure that an operating system uses to control how data is stored and retrieved on a storage device.
- Without a file system, the data placed on a disk would be a large block ^{where} _{with} no way to tell where one

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piece of information ends and next begins:

→ Following are the different types of File Systems:-

1) FAT (File Allocation Table)

- One of the oldest file system, commonly used in USB flash drives and memory cards.

2) NTFS (New Technology File System)

- The default file system for modern Windows operating system.
- It is more secure and efficient than FAT.

3) HFS and HFS+

- It is a file system developed by Apple for Mac-OS.
- HFS+ was widely used in older Mac computers, supporting larger files and more advanced features compared to original HFS.

4) Ext2, Ext3 and Ext4

- These are the most common file systems in Linux, Ext4 being the latest and most advanced one.

CONCLUSION:-

→ Hence, we have studied the Computer Forensic Application for recovery, permanent deletion of files.