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| **Digital Forensics**  Diploma in CSF/IT  Year 2/3 (2022/23) Semester 4/6 | Week 6 |
| Tutorial 5 |
| **Windows File System** | |

**OBJECTIVES**

After completing this topic, you should be able to:

* Sketch the hard disk structure based on a partition table.
* Explain the function of master boot code.

Q1. Peter is performing an examination on the image copy of a suspect’s computer. The suspect’s computer is a dual boot system and Figure 1 shows the Partition Table from the Master Boot Record of this computer. Assume that the first partition is installed with Windows XP and second partition is installed with Windows 7 operating system.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Name** | **Status** | **Start** | **Stop** | **Relative** | **Size** |
| 0b | FAT32 | 00 | 0:1:1 | 520:254:63 | 63 | 8369802 |
| 07 | NTFS | 80 | 521:0:1 | 1023:254:63 | 8369865 | 66958920 |
| 00 | None | 00 | 0:0:0 | 0:0:0 | 0 | 0 |
| 00 | None | 00 | 0:0:0 | 0:0:0 | 0 | 0 |

Figure 1: Partition Table of Suspect’s Computer

* 1. Based on the partition table in Figure 1, sketch a diagram to show the hard disk structure. Label the diagram clearly, showing the partitions, MBR, VBR, and sector numbers.

Graphical user interface

Description automatically generated with medium confidence

* 1. Explain how the Master Boot Code makes use of the partition table to look for the active partition and boot the computer. Identify the active partition.

Text

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