



Filesystem Usage

Lesson Plan: Class 02 / DL / 05



Overall goal of the lesson: Children will learn about the filesystem in a computer storage device (such as a hard drive), using a real-world analogy

Prior knowledge required: none

MODULE 1:

Module time: 35 minutes

Goal: To give a brief introduction to a filesystem

Description: Children will learn about computer filesystem with a real-world analogy

Material required:

Physical:

1. One copy of the worksheet (Filesystem usage) per child.
2. Writing material to solve the worksheet: pencil and eraser.
3. If possible, a file with sheets of paper inside it, a folder, and a desk drawer in the classroom

Electronic:

PPT Presentation for Filesystem usage

Procedure Summary:

1. Distribute the worksheets (Introduction to Best Fit) to the children.
2. Use the presentation to discuss Best Fit

Procedure Details:

1. Tell students we'll be going to an office today.
2. Here are some sheets of paper. Imagine there is one sheet of paper per student. On each sheet is our names, our birthdays, and our class number. Now where can we keep all these sheets of paper together? Ask the students.
3. Let's keep them in a file folder. A file folder is used to keep these sheets of paper together. Now, we have many such folders and want to keep them together. Where can we keep them?
4. Think of some furniture item to keep this in.
5. The answer is a drawer or cupboard. (If there is such a physical cupboard in the classroom, point it to the students.)
6. Ask students if they have heard of or seen a hard drive. Where have they seen it? (answer: a computer or with a computer)
7. Here's a hard drive – this one is 'external', meaning it is outside the computer. There is a hard drive inside the computer as well.
8. We saw a drawer or cupboard which is used to store many file folders. In the world of computers, the hard drive is like the cupboard. It stores many folders.
9. Do you remember what is inside the drawer? (Answer: file folders)
10. Yes, inside the drawer are file folders. The computer's hard disk also has many file folders. On a computer, you can see such folders. Folders are also called 'directories'.
11. And do you remember what is inside a folder? (Answer: sheets of paper with things written on it)
12. Correct. We have documents inside a folder. Inside a computer's hard drive, inside the folders are different types of documents. Can anyone tell me a type of document? (Expected answers: videos, audios, things that we write with the keyboard, games)
13. Right. There are different types of documents, like videos, audios, games, apps, programs, documents where we write something with the keyboard. All these are like sheets of paper.
14. So in a computer, where do we keep many documents? (Answer: inside a folder)

15. And where do we keep folders? (Answer: inside a hard drive)
16. These documents and folders inside the hard drives are given a name. We'll learn a new word: "filesystem". (Ask students to repeat aloud). A file system helps us keep things inside a hard disk drive.
17. Just like a cupboard or drawer helps us keep our things properly and help us find our documents when we want them, inside a computer, this 'filesystem' helps us keep our documents properly.
18. Once this is done, announce that students are now going to solve activities.
19. Distribute the worksheets and read through it.
20. Explain the activities on the sheet using the PPT

Information Broadcast : In Computer Science, the children learnt about Filesystems