KIDS & TEENS FREELANCING TRAINING INSTITUTE

Lovable Intellect Not Using XP (LINUX) Course Outline

Module 1: What is Linux and Why Use It?

- Introduction to Linux and how it's different from Windows or macOS
- Real-life examples: Android, servers, supercomputers using Linux
- Benefits: free, open-source, secure, and customizable
- Activity: Identify devices around you that run Linux

Module 2: Exploring Linux Distributions

- What are distros? (Ubuntu, Fedora, Debian, etc.)
- Real-life example: Choosing the right Linux version for your need
- Introduction to desktop vs. server versions
- Activity: Download and boot a Linux live session

Module 3: Linux File System & Terminal Basics

- Understanding root, directories, and navigation
- Introduction to the terminal/command line
- Real-life example: Using commands to manage files instead of GUI
- Activity: Navigate directories and create files using the terminal

Module 4: User Management and Permissions

- Creating, deleting, and managing users
- File permissions and ownership (rwx explained simply)
- Real-life example: Controlling access in a shared computer

- Activity: Change file permissions and user roles

Module 5: Linux Commands and Shell Scripting

- Basic and advanced commands: ls, cd, grep, cat, etc.
- What is a shell script and why it's powerful
- Real-life example: Automating daily tasks like backups
- Activity: Write a simple shell script to automate a task

Module 6: Package Management and Software Installation

- Understanding apt, yum, snap, and tar.gz packages
- Installing and removing software from the terminal
- Real-life example: Keeping software updated on your system
- Activity: Install a new program using command line

Module 7: Linux for Servers and Networking

- Using Linux as a web or database server
- Network commands: ifconfig, netstat, ping
- Real-life example: Hosting a website on a Linux server
- Activity: Configure a basic server environment

Module 8: Careers & Certifications in Linux

- Linux in system administration, DevOps, cloud computing
- Overview of certifications: CompTIA Linux+, RHCSA, LPIC
- Real-life example: A day in the life of a Linux administrator
- Activity: Plan your path to become a Linux pro

Bonus Materials

- Linux command reference guide
- Shell scripting templates
- VirtualBox + Ubuntu setup guide
- Practice tasks and mini-projects

- Certificate of Completion for Linux Fundamentals