

File Handling Exercises

Welcome to the file handling exercises! This document contains a series of tasks designed to help you master the basics of file operations. If you need assistance or want to verify your solutions, please visit our website for detailed answers and additional resources.

Exercise 1: Create File

- Task: Code a program that creates a file named as the user wants.
 - Input:
 - name (str): The name of the file.
 - Output: None.
 - Note: The program should create a file named {name}.

Exercise 2: School Administration

- Task: Code a program that reads all the student names and writes them to the console.
 - Input: None.
 - Output: Each student's name printed on a new line.

List of names:

John Smith
Emma Johnson
Michael Williams
Olivia Brown
James Jones
Sophia Miller
William Davis
Isabella Wilson
Benjamin Garcia
Mia Martinez
Lucas Hernandez
Charlotte Lopez
Henry Gonzalez
Amelia Moore
Alexander Taylor
Evelyn Anderson
Daniel Thomas
Harper Jackson
Matthew White
Abigail Harris

Exercise 3: Users Management

- Task: Code a program that gets the user's name, password, and phone number and saves it in a file called "user".
 - Input:
 - name (str): Name of the user.
 - password (str): Password of the user.
 - phone (str): Phone number of the user.
 - Output: None.
 - Note: The program should create a file called "user".

Exercise 4: Note App

- Task: Code a program that can create and read notes.
 - Input:
 - action (str): "w" for writing a note, "r" for reading a note.
 - name (str): Name of the note.
 - If action is "w":
 - note (str): The content of the note.
 - Output:
 - If action is "r", print the content of the note.
 - Note: No two notes should have the same name.

Exercise 5: Log In

- Task: Code a program for a website's backend. Users can log in or sign up. The program compares the username with existing files. If there is a file with that username, it compares the password. If matched, the user can log in; if not, they return to the start. For sign-up, the program prompts for a username and password and adds it to the folder with users. Usernames must be unique.
 - Input:
 - action (str): "l" for log in, "s" for sign up.
 - username (str): Username.
 - password (str): Password.
 - Output:
 - If successful, print "Hello, {username}".

Exercise 6: Ticket System

- Task: A company has asked you to make a program for ticket booking. The user can create a ticket, check if a ticket is valid, and delete a ticket.
 - Input:
 - action (str): "create", "check", or "delete".
 - If action is "create":
 - film (str): Title of the film.
 - name (str): Name of the buyer.
 - id (int): Computer generates a random, unique number.
 - If action is "check":
 - film (str): Title of the film.
 - id (int): Number of the ticket.
 - If action is "delete":
 - film (str): Title of the film.
 - id (int): Number of the ticket.
 - Output:
 - If action is "create":
 - Print "Ticket sold".
 - If action is "check":
 - Print "Ticket valid" or "Ticket invalid".
 - If action is "delete":
 - Print "Ticket deleted" or "Ticket not found".