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import java.io.*;
import java.util.*;

public class FileOperations {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int choice;

        do {
            System.out.println("\n----- FILE OPERATIONS MENU -----");
            System.out.println("1. Check if file exists");
            System.out.println("2. Get last modification date and time");
            System.out.println("3. Rename an existing file");
            System.out.println("4. Create a new directory/folder");
            System.out.println("5. Check if file can be read");
            System.out.println("6. Exit");
            System.out.print("Enter your choice: ");
            choice = sc.nextInt();
            sc.nextLine();

            switch (choice) {
                case 1:
                    System.out.print("Enter full file path: ");
                    String filePath = sc.nextLine();

                    try {
                        File file = new File(filePath);
                        if (!file.exists()) {
                            throw new FileNotFoundException("File not found at: " + filePath);
                        }
                        System.out.println("File found.");
                    } catch (FileNotFoundException e) {
                        System.out.println(e.getMessage());
                    }
                    break;

                case 2:
                    System.out.print("Enter full file path: ");
                    filePath = sc.nextLine();
                    File file = new File(filePath);

                    if (file.exists()) {
                        Date date = new Date(file.lastModified());
                        System.out.println("Last modified: " + date);
                    } else {
                        System.out.println("File does not exist.");
                    }
                    break;

                case 3:
                    System.out.print("Enter current file path: ");
                    String oldPath = sc.nextLine();
                    System.out.print("Enter new file path: ");
                    String newPath = sc.nextLine();

                    File oldFile = new File(oldPath);
                    File newFile = new File(newPath);

                    if (oldFile.exists()) {
                        boolean renamed = oldFile.renameTo(newFile);
                        if (renamed)
                            System.out.println("File renamed successfully!");
                        else

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        System.out.println("Failed to rename file.");
    } else {
        System.out.println("File not found.");
    }
    break;

case 4:
    System.out.print("Enter directory path to create: ");
    String dirPath = sc.nextLine();
    File dir = new File(dirPath);

    if (!dir.exists()) {
        boolean created = dir.mkdir();
        if (created)
            System.out.println("Directory created successfully: " + dirPath);
        else
            System.out.println("Failed to create directory.");
    } else {
        System.out.println("Directory already exists.");
    }
    break;

case 5:
    System.out.print("Enter full file path: ");
    filePath = sc.nextLine();
    file = new File(filePath);

    if (file.exists()) {
        if (file.canRead())
            System.out.println("The file can be read.");
        else
            System.out.println("The file cannot be read (access denied).");
    } else {
        System.out.println("File does not exist.");
    }
    break;

case 6:
    System.out.println("Exiting program.");
    break;

default:
    System.out.println("Invalid choice! Please try again.");
}
} while (choice != 6);

sc.close();
}
}

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