

EXP4

4a

"""

Write a program to find the number of lines in a file.

NAME: HANIF 231P044/01

"""

```
fname = input("Enter the name of the file: ")
```

```
num_lines = 0
```

```
try:
```

```
    with open(fname, 'r') as f:
```

```
        for line in f:
```

```
            num_lines += 1
```

```
    print(f"Number of lines in the file '{fname}' is: {num_lines}")
```

```
except FileNotFoundError:
```

```
    print("Error: The file does not exist. Please check the file name and try again.")
```

```
print("NAME: HANIF 231P044/01")
```

Output:

```
Enter the name of the file: sample.txt
Number of lines in the file 'sample.txt' is: 4
NAME: HANIF 231P044/01
```

4b.

"""

Write a menu-driven program on files to add, delete, and display movies from a text file.

NAME: HANIF 231P044/01

"""

```
FILENAME = "movies.txt"
```

```
def write_movies(movies):
```

```
    """Writes the movie list to the text file."""
```

```
    with open(FILENAME, "w") as file:
```

```
        for movie in movies:
```

```
            file.write(movie + "\n")
```

```
def read_movies():
```

```
    """Reads movies from the text file into a list."""
```

```
    movies = []
```

```
    try:
```

```
        with open(FILENAME, "r") as file:
```

```
            for line in file:
```

```
                movies.append(line.strip()) # Remove newline characters
```

```
    except FileNotFoundError:
```

```
        pass # If file does not exist, return an empty list
```

```
    return movies
```

```
def list_movies(movies):
```

```
    """Displays all movies from the list."""
```

```
    if not movies:
```

```
        print("No movies found.")
```

```
    else:
```

```
        for i, movie in enumerate(movies, start=1):
```

```
            print(f"{i}. {movie}")
```

```

    print()

def add_movie(movies):
    """Adds a new movie to the list and updates the file."""
    movie = input("Movie: ")
    movies.append(movie)
    write_movies(movies)
    print(f"{movie} was added.\n")

def delete_movie(movies):
    """Deletes a movie from the list based on user input."""
    list_movies(movies)
    try:
        index = int(input("Number: "))
        if 1 <= index <= len(movies):
            movie = movies.pop(index - 1)
            write_movies(movies)
            print(f"{movie} was deleted.\n")
        else:
            print("Invalid number. Try again.\n")
    except ValueError:
        print("Invalid input. Enter a number.\n")

def display_menu():
    """Displays the command menu."""
    print("The Movie List Program")
    print("\nCOMMAND MENU")
    print("list - List all movies")
    print("add - Add a movie")
    print("del - Delete a movie")
    print("exit - Exit the program")

```

```
print()

def main():
    """Main function to run the menu-driven program."""
    display_menu()
    movies = read_movies()
    while True:
        command = input("Command: ").strip().lower()
        if command == "list":
            list_movies(movies)
        elif command == "add":
            add_movie(movies)
        elif command == "del":
            delete_movie(movies)
        elif command == "exit":
            print("Bye!")
            break
        else:
            print("Not a valid command. Please try again.")
    if __name__ == "__main__":
        main()

print("~A PROGRAM WRITTEN BY HANIF 231P044/01")
```

Output:

```
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The Movie List Program

COMMAND MENU
list  - List all movies
add   - Add a movie
del   - Delete a movie
exit  - Exit the program

Command: add
Movie: munjya
munjya was added.

Command: list
1. munjya

Command: del
1. munjya

Number: 1
munjya was deleted.

Command: list
No movies found.

Command: exit
Bye!
~A PROGRAM WRITTEN BY HANIF 231P044/01
```