

Assignment :3

Task:4

#!/bin/bash

Objective: Script with all learned concepts

Function to display menu

```
display_menu() {  
    echo "Menu:"  
    echo "1. List files in a directory"  
    echo "2. Create a new directory"  
    echo "3. Copy a file to another directory"  
    echo "4. Quit"  
}
```

Function to list files in a directory

```
list_files() {  
    echo "Listing files in directory: $1"  
    ls -l "$1"  
}
```

Function to create a new directory

```
create_directory() {  
    echo "Enter the name of the new directory: "  
    read new_dir  
    mkdir "$new_dir"  
    echo "Directory '$new_dir' created."
```

```
}
```

```
# Function to copy a file to another directory
```

```
copy_file() {
```

```
    echo "Enter the name of the file to copy: "
```

```
    read source_file
```

```
    echo "Enter the destination directory: "
```

```
    read destination_dir
```

```
    cp "$source_file" "$destination_dir"
```

```
    echo "File '$source_file' copied to '$destination_dir'."
```

```
}
```

```
# Main script
```

```
while true; do
```

```
    display_menu
```

```
    echo "Enter your choice (1-4): "
```

```
    read choice
```

```
    case $choice in
```

```
        1)
```

```
            echo "Enter the directory path: "
```

```
            read directory_path
```

```
            list_files "$directory_path"
```

```
            ;;
```

```
        2)
```

```
            create_directory
```

```
;;  
3)  
    copy_file  
    ;;  
4)  
    echo "Exiting the script. Goodbye!"  
    exit 0  
    ;;  
*)  
    echo "Invalid choice. Please enter a number between 1 and 4."  
    ;;  
esac  
done  
chmod +x file_system_interaction.sh  
./file_system_interaction.sh
```