# Movie Recommendation System

## Introduction

This project is a simple Python-based Movie Recommendation System. It asks the user to select a preferred movie genre and then suggests movies from that genre. It uses fundamental Python concepts like lists and conditional statements (if-else-elif).

## Requirements

- Python installed on your system  
- Basic knowledge of Python programming (if-else, lists, loops)

## Code

# Movie Recommendation System  
  
# List of movies by genre  
action\_movies = ["Mad Max: Fury Road", "John Wick", "The Dark Knight", "Gladiator"]  
comedy\_movies = ["The Grand Budapest Hotel", "Superbad", "Step Brothers", "Mean Girls"]  
horror\_movies = ["The Conjuring", "Get Out", "A Quiet Place", "It"]  
romance\_movies = ["The Notebook", "Pride and Prejudice", "Titanic", "La La Land"]  
  
# Display available genres  
print("Welcome to the Movie Recommendation System!")  
print("Please select a genre from the list below:")  
print("1. Action\n2. Comedy\n3. Horror\n4. Romance")  
  
# Get user input  
choice = input("Enter the number corresponding to your choice (1-4): ")  
  
# Recommend movies based on user choice  
if choice == "1":  
 # If user chooses Action  
 print("\nRecommended Action Movies:")  
 for movie in action\_movies:  
 print(f"- {movie}")  
elif choice == "2":  
 # If user chooses Comedy  
 print("\nRecommended Comedy Movies:")  
 for movie in comedy\_movies:  
 print(f"- {movie}")  
elif choice == "3":  
 # If user chooses Horror  
 print("\nRecommended Horror Movies:")  
 for movie in horror\_movies:  
 print(f"- {movie}")  
elif choice == "4":  
 # If user chooses Romance  
 print("\nRecommended Romance Movies:")  
 for movie in romance\_movies:  
 print(f"- {movie}")  
else:  
 # If user enters an invalid number  
 print("\nInvalid choice! Please select a number between 1 and 4.")  
  
print("\nThank you for using the Movie Recommendation System!")

## Explanation

1. The program uses lists to store movies for different genres.  
2. The user selects a genre by entering a number (1-4).  
3. The program uses if-elif-else statements to check the user's choice and displays a list of movies from the chosen genre.  
4. If the user enters an invalid choice, an error message is displayed.

## Understanding the choice() Function

The `choice()` function in Python is part of the `random` module. It is used to randomly select one item from a list, tuple, or any other sequence.

Example Code:  
import random  
  
# List of movies  
movies = ["Mad Max", "John Wick", "The Dark Knight", "Gladiator"]  
  
# Randomly pick one movie  
selected\_movie = random.choice(movies)  
print("Your random movie is:", selected\_movie)