**Movie Recommendations System**

**INTRODUCTION** A movie recommendation system suggests films to users based on their preferences, watch history, or similar users' behavior. It improves user experience by personalizing recommendations, saving time, and boosting engagement.                                **CODE**#include <iostream>#include <vector>#include <string>using namespace std;// Struct to store movie informationstruct Movie {    string title;    string genre;};// Function to recommend movies based on genrevoid recommendMovies(const vector<Movie>& movies, const string& preferredGenre) {    bool found = false;    for (const auto& movie : movies) {        if (movie.genre == preferredGenre) {            found = true;        }    }    if (!found) {        cout << "No movies found in this genre.\n";    }}int main() {    // List of movies with titles and genres    vector<Movie> movies = {        {"Inception", "Sci-Fi"},        {"The Dark Knight", "Action"},        {"Interstellar", "Sci-Fi"},        {"Titanic", "Romance"},        {"The Shawshank Redemption", "Drama"},        {"Avengers: Endgame", "Action"},        {"The Notebook", "Romance"}    };    string preferredGenre;    cout << "Enter your preferred genre (e.g., Sci-Fi, Action, Romance, Drama): ";    getline(cin, preferredGenre);    // Recommend movies based on the user's input    recommendMovies(movies, preferredGenre);    return 0;}**OUTPUT** Enter your preferred genre (e.g., Sci-Fi, Action, Romance, Drama): ComedyRecommended Movies in the 'Comedy' genre:- Home alone- TedEnter your preferred genre (e.g., Sci-Fi, Action, Romance, Drama): RomanceRecommended Movies in the 'Romance' genre:- Titanic- The NotebookEnter your preferred genre (e.g., Sci-Fi, Action, Romance, Drama): Sci-FiRecommended Movies in the 'Sci-Fi' genre:- Inception- Interstellar**CONCLUSION** A movie recommendation system improves user experience by suggesting relevant movies based on individual preferences. This project demonstrated a simple content-based filtering approach, matching user input with movie genres. While basic, such systems are the foundation for more advanced models used by platforms like Netflix, helping users discover content efficiently and boosting engagement.