

**Steps to run the project:**

- Keep source code, csv files, and jar files in the same directory.
- MySQL Server must be running.
- Compile code using command line: `javac n01223646.java`
- Execute program using command line: `java -cp .;*; n01223646`
- Done
- Please be patient, the data takes considerable time to insert.

**Example Output/Input**

Green Text = Input

Basic searches. The title is matched by name perfectly and returns five similar movies.

```
Enter movie title: Cars 2
Searching movies similar to 'Cars 2'...
```

RECOMMENDED MOVIES:

```
Cars
Shrek the Third
Kung Fu Panda 3
Up
Big Hero 6
```

```
Enter movie title: The Shining
Searching movies similar to 'The Shining'...
```

RECOMMENDED MOVIES:

```
The Ring Two
1408
One Missed Call
Psycho
Book of Shadows: Blair Witch 2
```

```
Enter movie title: Iron Man
Searching movies similar to 'Iron Man'...
```

RECOMMENDED MOVIES:

```
Iron Man 3
Iron Man 2
The Avengers
Captain America: Civil War
Captain America: The Winter Soldier
```

Here we are searching for 'Harry Potter.' This of course is not specific enough, so we give the user some movies with similar names to choose from. I believe this is one of the best features of my program.

```
Enter movie title: Harry Potter
Searching movies similar to 'Harry Potter'...

Could not find movie 'Harry Potter'

Did you mean?
0} Harry Potter and the Half-Blood Prince
1} Harry Potter and the Order of the Phoenix
2} Harry Potter and the Goblet of Fire
3} Harry Potter and the Prisoner of Azkaban
4} Harry Potter and the Philosopher`s Stone
5} Harry Potter and the Chamber of Secrets
B} [BACK]

Selection: 2
Searching movies similar to 'Harry Potter and the Goblet of Fire'...

RECOMMENDED MOVIES:
Harry Potter and the Order of the Phoenix
Harry Potter and the Prisoner of Azkaban
Harry Potter and the Chamber of Secrets
Harry Potter and the Philosopher`s Stone
Harry Potter and the Half-Blood Prince
```

Here to user searches for a title but the capitalization and white space is strange. However, the program is able to still determine the movie's title despite these imperfections.

```
Enter movie title: alien
Searching movies similar to 'aLieN'...

RECOMMENDED MOVIES:
Aliens
The Host
Alien³
Aliens vs Predator: Requiem
Pandorum
```

An example of where my program fails. Even though the title 'Pulp Fiction' is just one space away from 'PulpFiction', my search engine is unable to determine the correct title.

```
Enter movie title: PulpFiction
Could not find movie 'PulpFiction'
```

Here to user inputs a meaningless string of characters. Unfortunately, the recommendation engine cannot do anything with this input.

```
Enter movie title: d87gefiug3f83
Could not find movie 'd87gefiug3f83'
```

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Data Modeling Final Project

Here the user searches for 'Tron' However, this movie does not exist in the database to the user is shown similar titles. The user then decides to search for a different movie and enters 'b' to return. b

```
Enter movie title: Tron
Could not find movie 'Tron'

Did you mean?
0} Avengers: Age of Ultron
1} TRON: Legacy
2} The Astronaut`s Wife
3} Jimmy Neutron: Boy Genius
4} Country Strong
5} The Astronaut Farmer
6} Flame & Citron
7} Only the Strong
B} [BACK]

Selection: b
```

Lastly, the user can enter '/quit' to drop the database and exit the program.

```
Enter movie title: /quit
Goodbye...
```