

```
MENU_PROMPT="\n\nEnter 'a' to add a movie, 'l' to see your movies, 'f' to find a movie by title, 'y' to find a movie by year, 'd' to find a movie by director, or 'q' to quit\n"
```

```
movies = []
```

```
def add_movie():
```

```
    title = input("Enter the movie title: ")
```

```
    director = input("Enter the movie director: ")
```

```
    year = input("Enter the movie release year: ")
```

```
    movies.append({
```

```
        'title': title,
```

```
        'director': director,
```

```
        'year': year
```

```
    })
```

```
    print(f'{title} has been added to the list of movies.')
```

```
def list_movies():
```

```
    if not movies:
```

```
        print("The movie list is empty.")
```

```
    else:
```

```
        for index, movie in enumerate(movies):
```

```
            print(f'{index+1}. {movie["title"]} year ({movie["year"]}) directed by {movie["director"]}')
```

```
def find_movie_by_name():
```

```
    title = input("Enter the title of the movie you want to find: ")
```

```
    for movie in movies:
```

```
        if movie['title'] == title:
```

```
            print(f'{movie["title"]} year ({movie["year"]}) directed by {movie["director"]}')
```

```
            return
```

```
    print(f'No movie with the title {title} was found.')
```

```
def find_movies_by_year(year):
```

```
    matching_movies = []
```

```
    for movie in movies:
```

```
        if movie['year'] == year:
```

```
            matching_movies.append(movie)
```

```
    if not matching_movies:
```

```
        print(f'No movies from {year} were found.')
```

```
    else:
```

```
        for movie in matching_movies:
```

```
            print(f'{movie["title"]} directed by {movie["director"]}')
```

```
def find_movies_by_director(director):
```

```
    matching_movies = []
```

```
    for movie in movies:
```

```
        if movie['director'] == director:
```

```
            matching_movies.append(movie)
```

```
    if not matching_movies:
```

```
        print(f'No movies directed by {director} were found.')
```

```
    else:
```

```
        for movie in matching_movies:
```

```
            print(f'{movie["title"]} year ({movie["year"]})')
```

```
def menu():
```

```
    selection = input(MENU_PROMPT)
```

```
    while selection != 'q':
```

```
        if selection == "a":
```

```
            add_movie()
```

```
elif selection == "l":
    list_movies()
elif selection == "f":
    find_movie_by_name()
elif selection == "y":
    year = input("Enter the year: ")
    find_movies_by_year(year)
elif selection == "d":
    director = input("Enter the Director name: ")
    find_movies_by_director(director)
else:
    print('Unknown command. Please try again.')
selection = input(MENU_PROMPT)
menu()
```