MOVIE TICKET BOOKING IN PYTHON

Introduction

The above Python program is a simple movie ticket booking system that allows users to book and cancel tickets. The program includes two main functions: book_ticket() and cancel_ticket(). The program also includes a while loop that prompts the user to choose whether they want to book or cancel a ticket, and calls the appropriate function based on their choice.

Functionality

The book_ticket() function prompts the user for the movie name, date of the show, and number of tickets. The user also has the option to make an online payment, and the program will display a message if the payment is successful. The cancel_ticket() function prompts the user for the same information as book_ticket() and display a message for successfully cancelling the ticket. The program also has error handling in case the user enters an invalid input.

Algorithm

The algorithm of the given program can be summarized as follows:

1. Define a function book_ticket() that prompts the user for the movie name, date of the show, and number of tickets.
2. Ask the user if they want to make an online payment, if yes, process the payment, if no, display a message that they have chosen to pay at the counter.
3. Display the booking details, including the movie name, date, and number of tickets.
4. Display a message to confirm the booking is successful.
5. Define a function cancel_ticket() that prompts the user for the movie name, date of the show, and number of tickets.
6. Display the cancellation details, including the movie name, date, and number of tickets.
7. Display a message to confirm the cancellation is successful.
8. Create a while loop to keep prompting the user to choose whether they want to book or cancel a ticket.

9. Based on the user's choice, call the appropriate function (book_ticket() or cancel_ticket()).
10. In case the user enters an invalid input, display an error message and prompt the user again.
11. The program will continue to execute the loop until the user decides to exit.

Built-in functions:

The built-in functions used in the given program are:

- input(): used to prompt the user for input, such as the movie name, date of the show, and number of tickets.
- print(): used to display messages to the user, such as the booking details, payment status, and confirmation of booking or cancellation.
- int(): used to convert the input from input() function to integer data type as the number of tickets should be numeric.
- while loop: used to keep prompting the user to choose whether they want to book or cancel a ticket.
- if and elif statements: used to determine the user's choice and call the appropriate function (book_ticket() or cancel_ticket()).

Conclusion

This program is a simple implementation of movie ticket booking system, it can be further improved by adding more functionalities like checking the availability of tickets, displaying the prices, and storing the bookings in a database. The implemented functions are user-friendly and easy to understand. The error handling mechanism is also implemented which enhances the user experience. Overall, this program can be used as a starting point for more advanced ticket booking systems.