

Pro_Lab 8

1. Travel Expenses

Create a GUI application that calculates and displays the total travel expenses of a business person on a trip. Here is the information that the user must provide:

- Number of days on the trip
- Amount of airfare, if any
- Amount of car rental fees, if any
- Number of miles driven, if a private vehicle was used
- Amount of parking fees, if any
- Amount of taxi charges, if any
- Conference or seminar registration fees, if any
- Lodging charges, per night

The company reimburses travel expenses according to the following policy:

- \$37 per day for meals
- Parking fees, up to \$10.00 per day
- Taxi charges up to \$20.00 per day
- Lodging charges up to \$95.00 per day
- If a private vehicle is used, \$0.27 per mile driven

The application should calculate and display the following:

- Total expenses incurred by the business person
- The total allowable expenses for the trip
- The excess that must be paid by the business person, if any
- The amount saved by the business person if the expenses are under the total allowed

2. Theater Revenue

A movie theater only keeps a percentage of the revenue earned from ticket sales. The remainder goes to the movie company. Create a GUI application that allows the user to enter the following data into text fields:

- Price per adult ticket
- Number of adult tickets sold

- Price per child ticket
- Number of child tickets sold

The application should calculate and display the following data for one night's box office business at a theater:

- Gross revenue for adult tickets sold. This is the amount of money taken in for all adult tickets sold.
- Net revenue for adult tickets sold. This is the amount of money from adult ticket sales left over after the payment to the movie company has been deducted.
- Gross revenue for child tickets sold. This is the amount of money taken in for all child tickets sold.
- Net revenue for child tickets sold. This is the amount of money from child ticket sales left over after the payment to the movie company has been deducted.
- Total gross revenue. This is the sum of gross revenue for adult and child tickets sold.
- Total net revenue. This is the sum of net revenue for adult and child tickets sold.

Assume the theater keeps 20 percent of its box office receipts. Use a constant in your code to represent this percentage.

