Programming Fundamentals

Course Work 02

Introduction

This program is intended to generate the output for a Cinema Booking Bill. The user must enter their information into the program. The program will then display the formatted output with the provided information.

1. Be sure to add input validations in your code.

2. Make sure to format the program as shown in the pictures given.

3. Once you finished the coding part, run the program.

Instructions

1. Firstly, the user should be displayed with the following as shown below. Kindly input the date for your movie booking using the following format: DD-MM-YYYY. (Example: 13-11-2023)

2. Then, the user is required to enter the location of the movie theatre.

3. The user should be shown the following when they are asked which movie they want to watch.

4. Then, the following should be displayed to the user asking for the show time.

```
    _   __     _ _       _    _       _____ _ _
   /_\  \ \   / (_) _ __ | | _|  |  ___|(_) | _ __ ___
  / _ \  \ \ / /| |/ _` || |/ _` | |_  | | || '_ ` _ \
 / ___ \  \ V / | | (_| || | (_| |  _| | | || | | | | |
/_/   \_\  \_/  |_|\__,_||_|\__,_|_|   |_|_||_| |_| |_|

===========================================================

        1)  Movie 1 - Hall 1                2)  Movie 2 - Hall 2

        3)  Movie 3 - Hall 3                4)  Movie 4 - Hall 4

Enter Movie Number: 2


                       _____
                      |_   _|_
                        | | (_)_ __ ___   ___
                        | | | | '_ ` _ \ / _ \
                        | | | | | | | | |  __/
                        |_| |_|_| |_| |_|\___|

              ===========================================================

                        1) 9.00 A.M

                        2) 2.00 P.M

                        3) 7.00 A.M

Enter Time: 9.00 A.M
```

5. The user will be directed to the customer details section. In this, the user is required to enter their name, phone number, whether they're a child or parent and the number of tickets needed.


```
                           ___   ___
                          / _ \ |  |
                  ___    / /\ \ |  |____ ___  __ ___  __ ___
                 |  ___| | |__| | ____/ _ \/ _ \/ _ \__ |
                 |  |___ |  __  | |___| | | | | | | | | |
                  \____| |_|  |_|\____/|_| |_|_| |_|_|_|_|

          ==========================================


   Name : Piyal


   Phone Number : 0731234567


   Child OR Parent : Parent


   Number of Tickets : 3
```

You should calculate the amount, tax and total according to the details input by the user.

The Tax Rate : 80%

Price of one movie ticket : Rs.90

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6. Once the user completes the above steps, the details should be displayed in a bill as follows.


```
+==============================================================+
||                                                          ||
||       _        _____   ___   __     _____   __      ||
||      / \/    / ___/ / / /_\ / / /_/ /     / /     / /      ||
||     /,/ /\\ / /_  / // /_\/ / / /\ / /   / /\// / /\ /|     ||
||    /_/|_/ /_/ \__/ \___/__/__/ /_/ /_/ /_/ |_/      ||
||                                                          ||
||                                                          ||
|| Date : 13-11-2023                    Location : Panadura ||
||                                                          ||
||---------------------------------------------------------||
||                                                          ||
||      Name          : Piyal                               ||
||                                                          ||
||      Phone Number  : 0731234567                          ||
||                                                          ||
||      Tickets       : 3                                   ||
||                                                          ||
||      Type          : Parent                              ||
||                                                          ||
||      Time          : 9.00 A.M                            ||
||                                                          ||
||      Hall          : 2 Hall                              ||
||                                                          ||
||      Tax           : 16                                  ||
||                                                          ||
||                                    Total : 286           ||
||                                                          ||
+==============================================================+
```

Notes

This program uses the Scanner class to handle user input. Ensure that you have the necessary permissions to access the console or command line for input.

Ensure that you enter valid data in the correct format as specified by the program prompts.

Review and understand the program's logic to grasp how the output is generated based on the user's input.

Refer this video for get more idea about this course work - Demo Video