

# PROGRAMMING TECHNIQUES PROJECT

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**Course Title:** Programming Techniques.

**Under The Supervision of:** Dr. Hadeer Ahmed

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# INTRODUCTION

Our Project is a C++ program for Traveling Agency, we applied almost all our course content ideas to generate such a useful program.

## PURPOSE AND METHODS

This project is meant to be a program which helps the user to prepare his trip from A to Z without needing to think about booking a flight or the hotel he will spend the trip in.

After signing up, the program asks the user to choose his destination, then show him the available hotels, after choosing one and entering the number of nights, he is able to choose his way of traveling either by bus or an airplane, and is it a one way trip or a round trip, there are two methods of paying for the trip (Cash – Credit Card), after the booking is done, the program prints out the trip details.

### the first screen in our project

starts with the log-in menu we have three choices, the first one is log in

```
-----HELLO-----
-----WELCOME TO OUR TRAVELING APP-----
-----LOG-IN MENU-----
choose:
1:log in
2:sign up
0:quite
1
please enter the username :youssefabobaker
please enter the password :25512464
youssefabobaker
YOUR LOGIN IS SUCCESSFUL
```

we use files to store data of our clients that help them to enter our project easily by entering their username



and password if it's not correct it asks you want to try again but you have 4 times, in each time ask you if you want to go to sign up or quite.

#### THE SECOND CHOICE TO SIGN UP

```
-----HELLO-----  
-----WELCOM TO OUR TRAVELING APP-----  
-----LOG-IN MENU-----  
choose:  
1:log in  
2:sign up  
0:quite  
2  
please enter your first name: youssef  
please enter your last name: abobaker  
please enter your address: cairo-helwan-15 may city  
please enter your phone number: 01123954334  
please enter your age: 19  
please enter a username: youssefabobaker  
please enter a password min 8 characters: 25512464
```

if you visit us for the first time, we can take your data and store it we used classes to make the data protected and make data controlled but if you are under 18 sorry you can't enter our app if you log in with correct data or sign up, we go to the second screen.



## ON THE SECOND SCREEN

```
-----DESTINATION SECTION-----
please enter your current station:
helwan
Please Choose Your destination from the options
1:Sharm El-Sheikh Price: Airplane=500$.....Bus=200$
2:Aswan Price: Airplane=700$.....Bus=300$
3:Luxor Price: Airplane=600$.....Bus=250$
4:Hurghada Price: Airplane=450$.....Bus=170$
5:Alexandria Price: Airplane=250$.....Bus=75$
6:Dahab Price: Airplane=570$.....Bus=275$
0:quite
4
Your trip is From helwan To Hurghada

1:to Choose the hotel
2:if you don't need hotel
0:quite
1

1:Hilton Hurghada Plaza Hotel $350 per night
2:Royal City Hotel $270 per night
3:Sky View Suits Hotel $200 per night
3

please enter the number of night
4
please enter the date of your trip
The day: 31
the month: 12_
```

the first thing we want to know is your current station because it is the starting point of your trip, after that we show you our destinations with the price of transportation for airplanes and buses after you choose one from the list app asks you if you want hotel or not if you want app shows you hotels to choose from it with it is a price for one night, after that the app asks you about the number of nights after that we want to know the date of the trip after that we go to the next screen



## TRANSPORTATION SECTION

-----TRANSPORTATION SECTION-----

Please Choose Your type of transportation

1:Airplane

2:Bus

0:quite

1

Please choose your seat class in the Airplane

1:A

2:B

3:C

1

Please Choose Your Type of Traveling

1:One-Way

2:Round Trip (Extra 50% discount of price)

2

it let you choose the type and seat class and the type of your ticket and store this information



## TRIP DETAILS

```
-----Trip Details-----
From: helwan
To :Hurghada
Date of reservation is 31/12

the hotel is Sky View Suits Hotel
the number of night in hotel is 4
Transportation: Airplane
Class: A Class
Travel Type: Round Trip
Price for transportation before Discount = 900$
price for transportation After Discount = 675$

Total price for hotel is 800$

total price for transportation is 675
THE TOTAL PRICE FOR ALL TRIP IS 1475$

Choose a method of payment:
1:Credit Card
2:Fawry
0:quite
2
your payment code is: 0089848487
-----
-----THANK YOU BYE BYE:-----
C:\Users\youssef\source\repos\project\x64\Debug\project.exe (process 10780) exited with code 0
Press any key to close this window . . .
```

the app shows you all details about the trip by using data stored in it, from where to where, the date, the name of the hotel, the number of nights, the type of transportation, the class, the travel type, the price before the discount and after, the price for hotels and the total price for all trips.



after that, the app asks you about the way to the payment credit card or Fawry if you choose Fawry the app will print a random code for you and

If you choose a credit card, we take your data to store for the next reservation and make your payment, be done.

#### PAYMENT METHOD SCREEN

```
Choose a method of payment:
1:Credit Card
2:Fawry
0:quite
1

enter the 14 numbers on your card: 28499163742648

enter the expiration date on your card: 26/12/2025

enter the name on your card youssef

your payment is done and your card details have been saved for the next reservation
-----
-----THANK YOU BYE BYE:)-----
C:\Users\youssef\source\repos\project\x64\Debug\project.exe (process 22432) exited with code 0
Press any key to close this window . . .
```