

PES UNIVERSITY

(Established under Karnataka Act No. 16 of 2013) 100 Ft. Road, BSK III Stage, Bengaluru – 560 085

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Title: Problem Sol	ving with C Laboratory	
Course code: UE19CS152		
Semester: II sem	Section: D	Team Id:
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PROJECT REPORT

AIRPORT CONNECT

Problem Statement:

To create a program to check the availability of flights (both domestic and international) and to create a booking portal to facilitate payment.

Description:

This program is developed to facilitate the checking of availability of flights and to enter the destination and choose a flight. This program is developed to act as an instant boarding portal, and it considers flights that leave within the next three hours for domestic and six hours for international. A booking portal is created. Three ALGL user ids are pre-specified along with their respective ALGL pins.

C-concepts used:

The concepts used in this program are:

• Text files:

[CSV files] {comma separated variables files}

These are the delimited text files that use a comma to separate values. Each line is a data record.

strtok()

This is a function used to split a string of tokens based on a particular delimiter where a token is a substring extracted from the original string. Syntax: strtok(string,"delimiter");

memset()

This function is used to initialize values to a multi-dimensional array. Syntax: memset(arrayname, value, sizeof(arr[0][0])*R*C) (where R: number of rows; C: Number of columns)

Structures

This is a user defined datatype which can be used to group items of different datatypes. Syntax: struct name_of_structure; $\{ \\ \}; s; \quad \text{(where s: Object declaration)}$

Learning Outcome:

- Learnt about the way data is stored in a text file.
- Learnt about strtok().
- Learnt about another way of initializing multi-dimensional arrays.
- Learnt the basics of file handling.
- Learnt about CSV file.

Output Screenshots:

SUCCESSFUL BOOKING OF DOMESTIC FLIGHT

```
AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

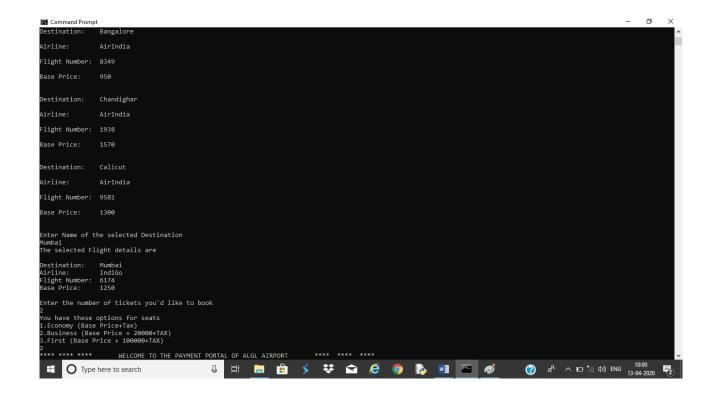
PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

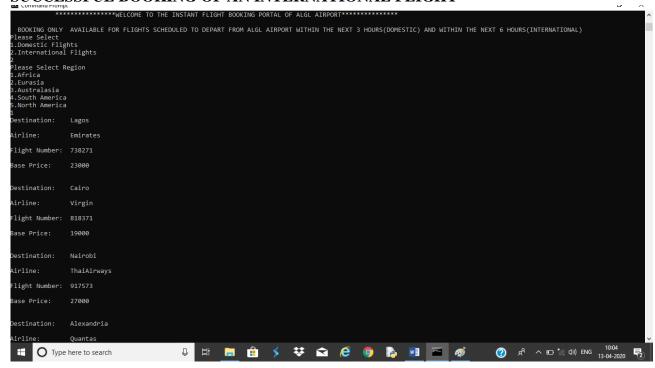
PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO DEPART FROM ALGL AIRPORT NITHIN THE NEXT 3 HOURS(DOMESTIC) AND WITHIN THE NEXT 6 HOURS(INTERNATIONAL)

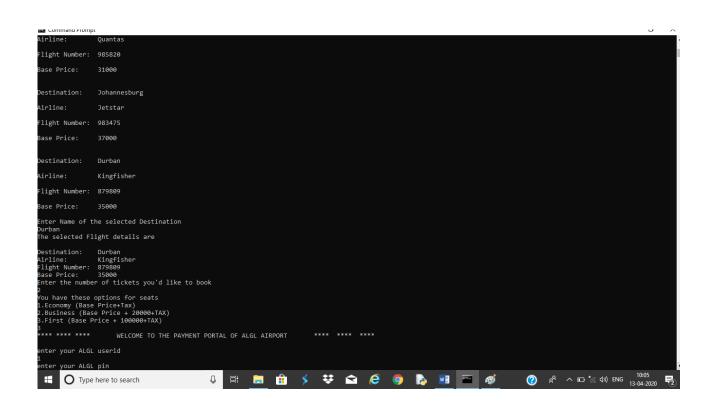
PROVINCE ONLY AVAILABLE FOR FLIGHTS SCHEDULED TO PART AIR TO PART AI
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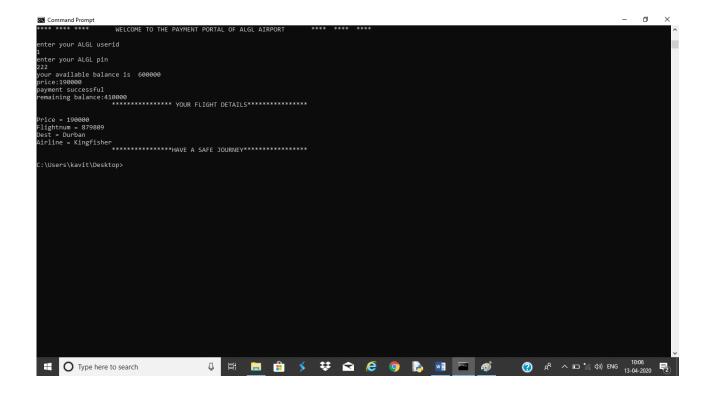


Command Prompt ****** **** ***** WELCOME TO THE PAYMENT PORTAL OF ALGL AIRPORT enter your ALGL userid enter your ALGL pin 111 your available balance is 500000 price:26500 . payment successful remaining balance:473500 ********** YOUR FLIGHT DETAILS********* Price = 26500 Flightnum = 6174 Dest = Mumbai Airline = IndiGo \Users\kavit\Desktor

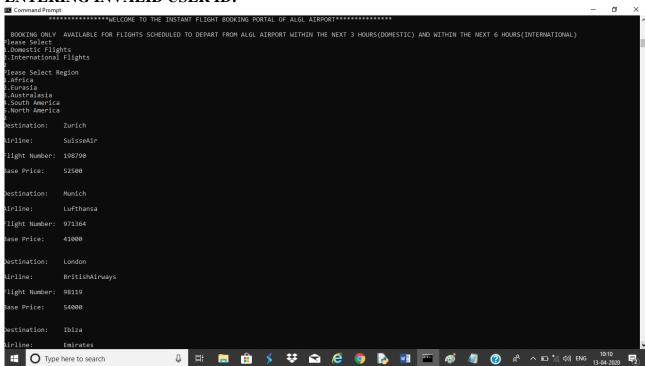
SUCCESSFUL BOOKING OF AN INTERNATIONAL FLIGHT





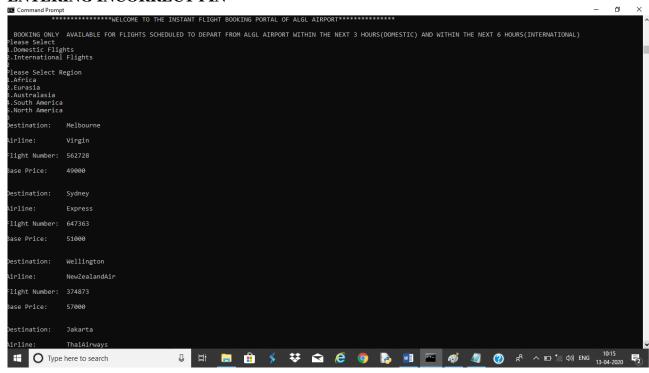


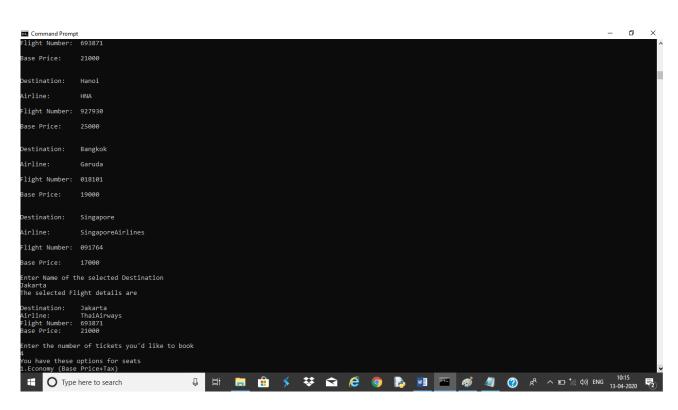
ENTERING INVALID USER ID:





ENTERING INCORRECT PIN

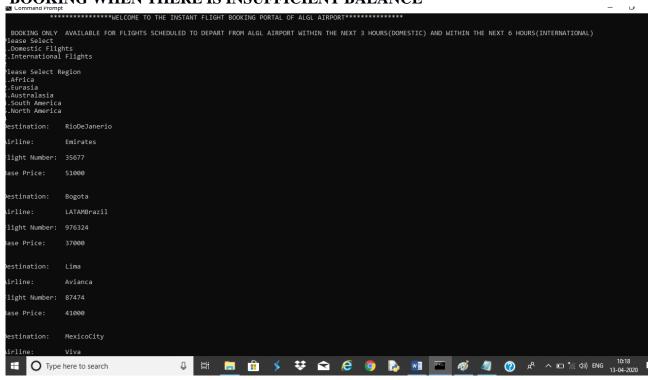


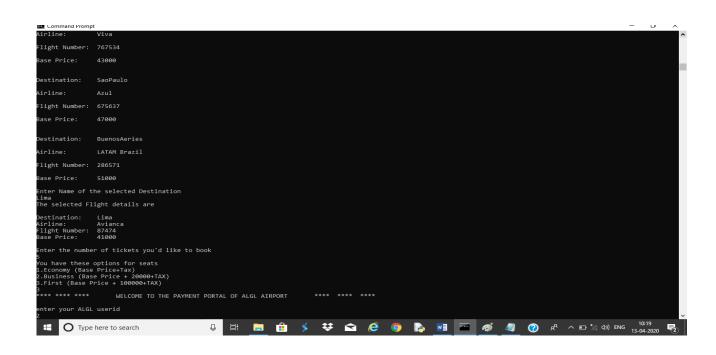


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You have these options for seats
1.Economy (Base Price+Tax)
2.Business (Base Price + 20000+TAX)
3.First (Base Price + 100000+TAX)
3
**** **** **** WELCOME TO THE PAYMENT PORTAL OF ALGL AIRPORT **** ****

enter your ALGL userid
9
enter your ALGL pin
222
incorrect pin
```

BOOKING WHEN THERE IS INSUFFICIENT BALANCE





****	****	****	WELCOME	TO	THE	PAYMENT	PORTAL	OF	ALGL	AIRPORT	***	****	***
	you	r ALGL	userid										
2 enter	you	r ALGL	pin										
333 your	avai	lable b	alance is 2	99									
		ent bala ion dis	ance rupted,pleas	e re	-ent	er the	portal						

Name and Signature of the Faculty: