



# JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

## Topic - *Flight Navigator*

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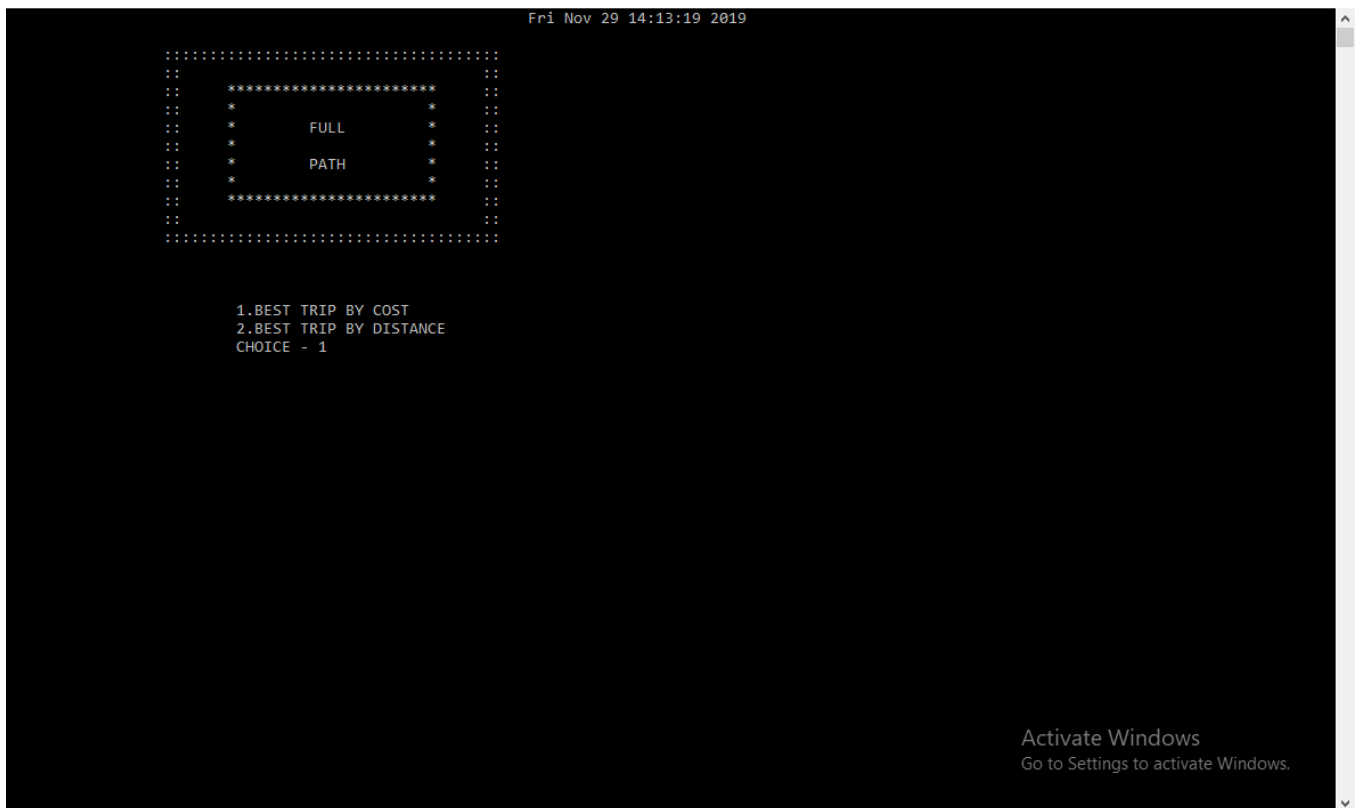
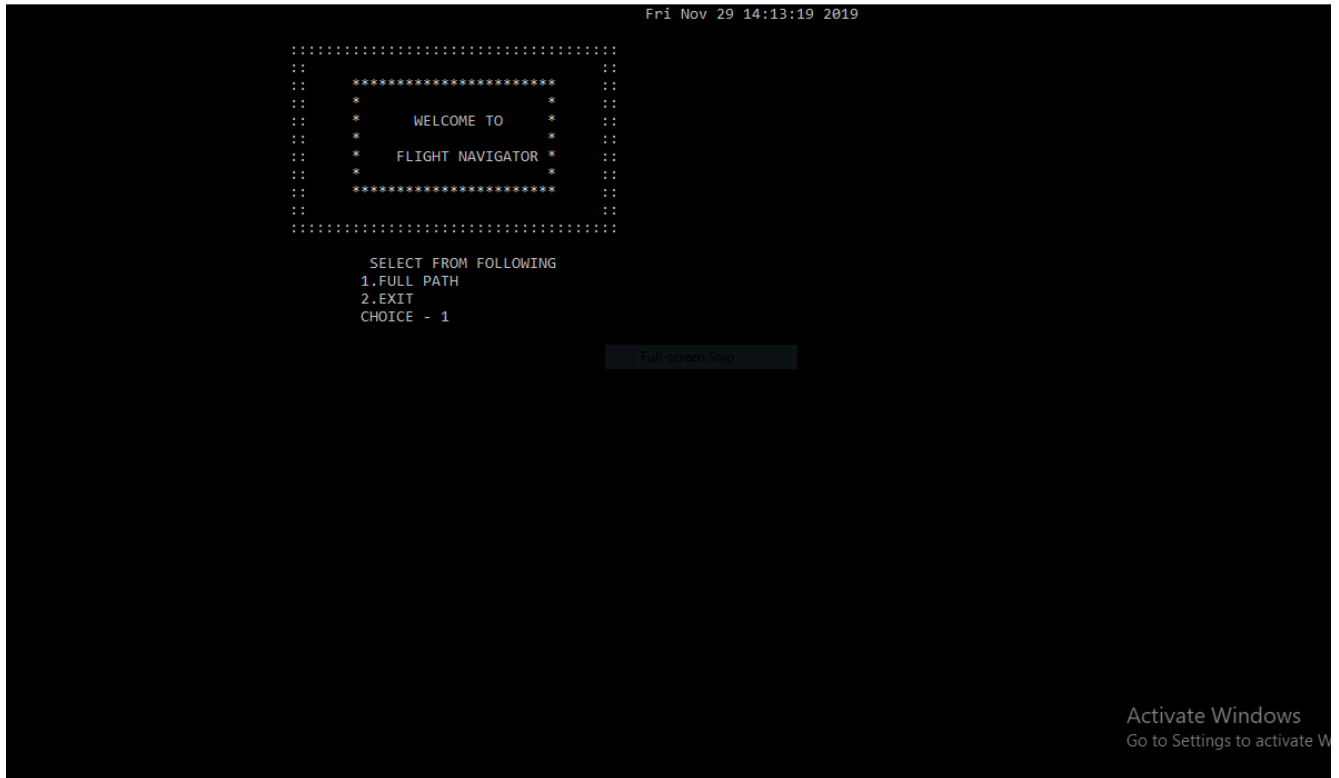
## INTRODUCTION

- In this project, we will determine various flight plans for a person wishing to travel between two cities through an airplane.
- We will also calculate the total cost incurred and the total time taken by that person for his/her flight trip and recommend the user the best possible trip according to the preference cost/time entered by the user.

## IMPLEMENTATION DETAILS:

- In order to store the various flight paths possible we will use the data structure *graphs* and represent it using *adjacency matrix* where we will store the city and the various cities it is connected to.
- The program will print the most efficient flight plans available based on whether the request was to order by time or cost. If no flight plan can be created, then an error message will be output.

## Output Results



```
Fri Nov 29 14:13:19 2019

*****
*               *
*   BEST TRIP   *
*   BY COST     *
*               *
*****

Enter any station from 0-26
Enter your source : 12
Enter your destination : 19

Shortest path By Cost : 12->15->14->16->17->18->19->

DETAILED TRIP :

From 12 to 19 the shortest distance is 760 Kms
The fare for this trip : Rs. 12300/-
The time required to complete the trip : 19 hr

Do you want to continue? :
```

```
"C:\Users\Delhi\Documents\final ds graph project\DS project flight navigator_new.exe"
Fri Nov 29 14:14:59 2019

*****
*               *
*   FULL        *
*   PATH        *
*               *
*****

1.BEST TRIP BY COST
2.BEST TRIP BY DISTANCE
CHOICE - 2

Activate Windows
Go to Settings to activate Windows.
```

The screenshot shows a Windows desktop environment. At the top, the taskbar displays various application icons including File Explorer, Edge, Chrome, and Word. The main area is occupied by a black terminal window titled "C:\Users\Delhi\Documents\final ds graph project\DS project flight navigator\_new.exe". The terminal output includes a header "Fri Nov 29 14:14:59 2019", a decorative ASCII art box containing the text "BEST TRIP BY DISTANCE", and a series of prompts for user input. The user has entered source station "12" and destination station "19". The program then outputs the shortest path as "12->11->15->14->16->17->18->19->", followed by trip details: distance of 740 Kms, fare of Rs. 13200/-, and time of 18 hr. It asks if the user wants to continue. In the bottom right corner of the terminal window, there is a watermark for "Activate Windows" with instructions to go to settings.