Aero-plane takeoff and landing

With changes in the background

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Aero-plane takeoff and landing

Course: Computer Graphics
Section: C
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Outline of the presentation

- Vision

- Idea

- System features and implementation

- One by one window description

- Changes in Final Iteration
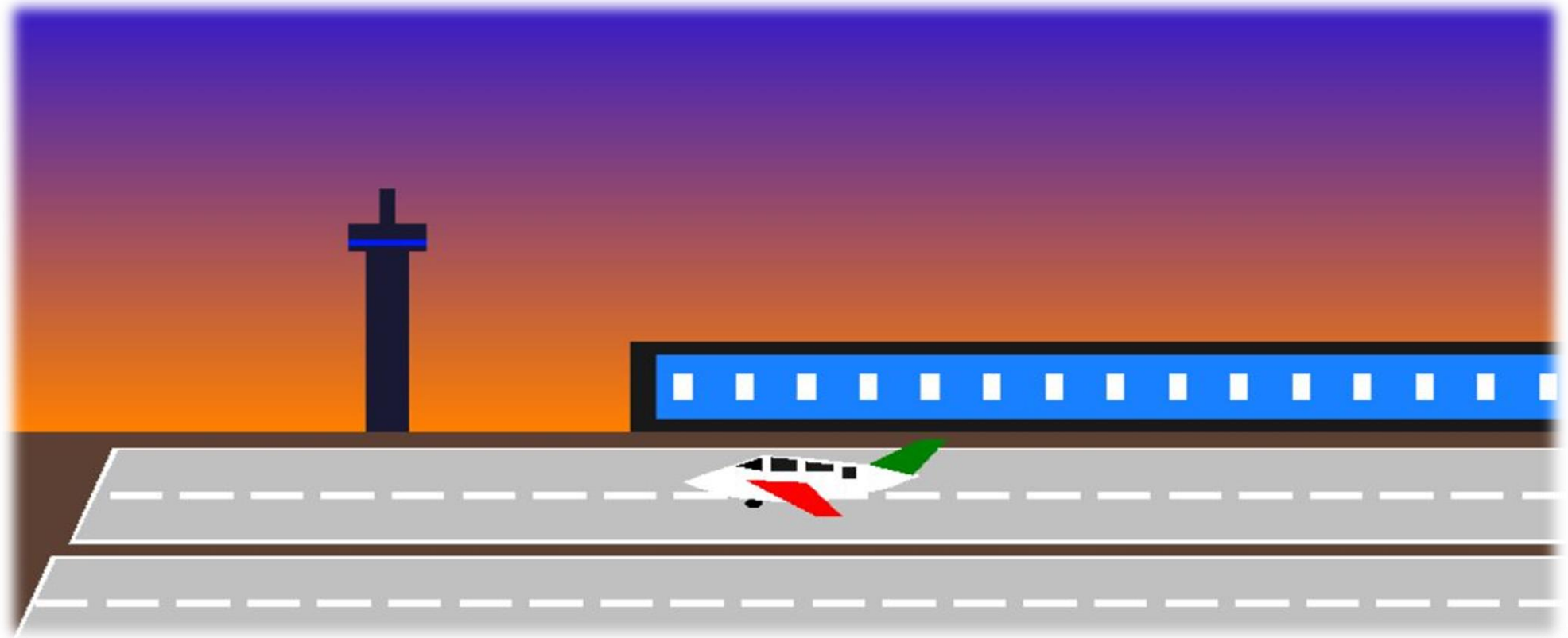
- Conclusion

- Display of the project

Vision

The vision of this computer graphics project is to design some windows that demonstrate the visual representation of a plane being taken off and landed on the airport.

Idea

➢ **The idea of the project was to draw a plane that moves along the screen.**

➢ **It can be named as BANGABONDHU AIRWAYS for display purpose on the screen.**

Aero-plane

System features and implementations

- ➢ **Front Page with human interaction.**

- ➢ **Environment changes.**

- ➢ **Take off for the plane from the runway.**

- ➢ **The movement of the plane from left to right of the screen.**

- ➢ **The background environment changes describing how night falls gradually from evening.**

- ➢ **The actual way of flying .**

These things occurs in a continuous one by one window changes.

How the implementation was done

➢ **The base window size 1920 x 1080 pixels per unit**

➢ **One by one function declaration like Airpor1, Airport2, AIUB, City, hills, Cox's bazar etc.**

➢ **Calculation for translating & geometrical shapes.**

➢ **OpenGL graphics library in the code blocks IDE**

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How the implementation was done

➢ **Basically glvertex3f was used to make the graphical and geometrical shapes of all the Object.**

➢ **glutKeyboarFunc was used to make the human interaction on the scenario.**

➢ **glColor3f, glColor3ub was used for adding and varying the colors in the scenarios.**

One by one window description

➢Initial window for start or exit. The name of the members are written in it

COMPUTER GRAPHICS [C]

ANNA, MD. AOLAD HOSSAIN (17–33513–1)
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Press (S) for Plane start   Press (R) for Rain   Press (Q) for Exit
                                   Press (E) for Stop Rain

1ˢᵗ window

➢Demonstrates the takeoff from the airport of Dhaka at the dusk.

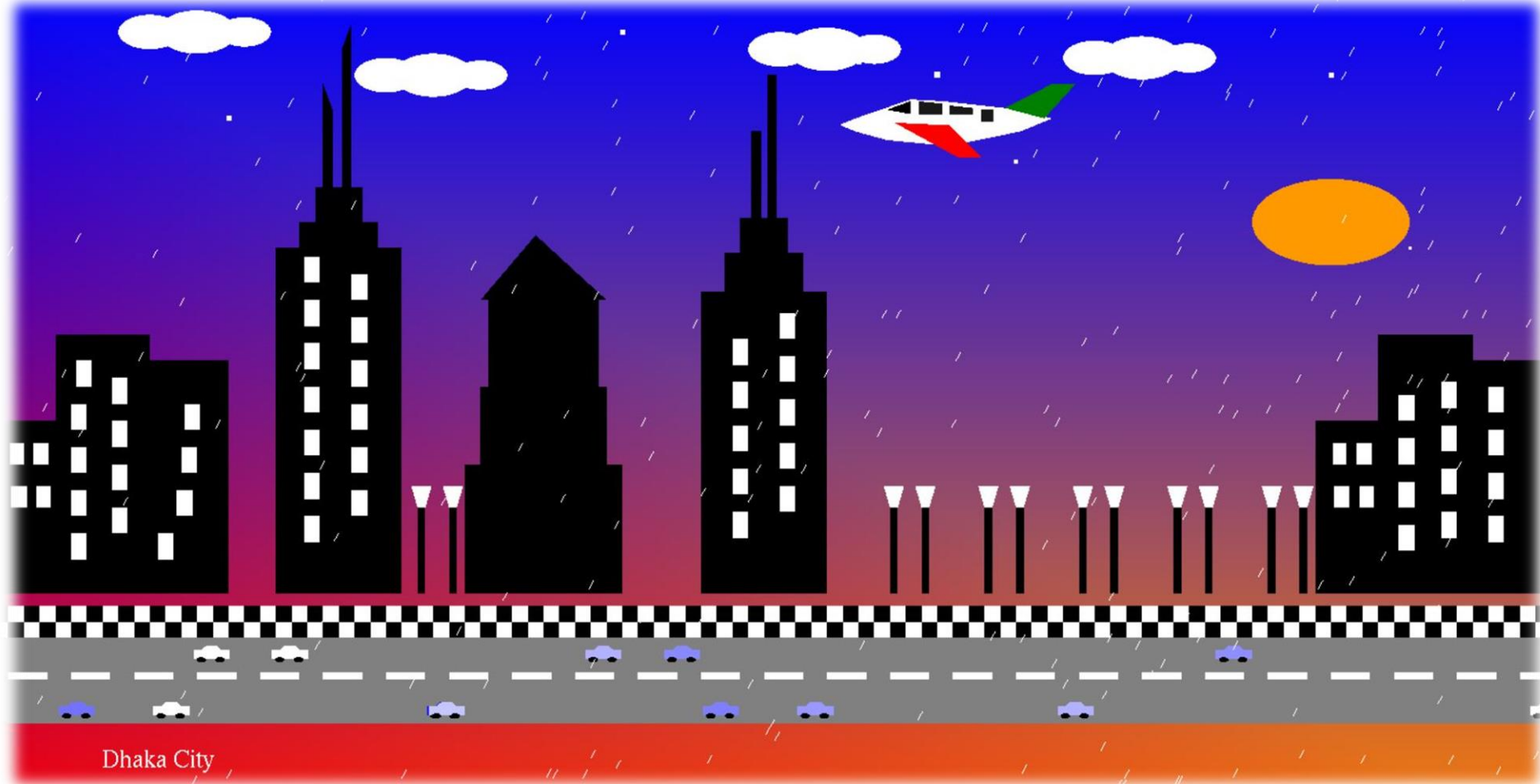Shah Jalal International Airport,Bangladesh

2nd window

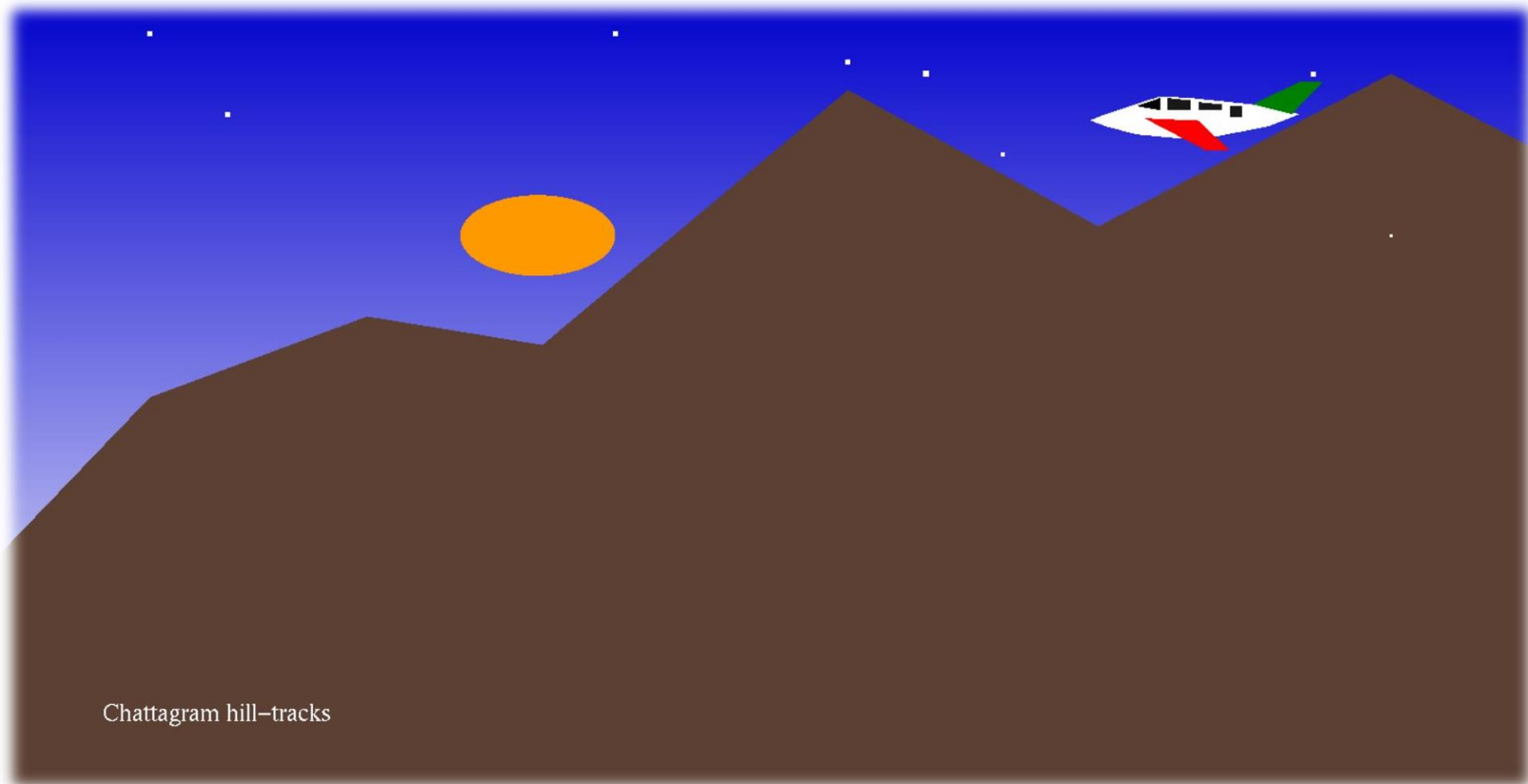➢Demonstrate the fly over the AIUB Campus in the evening.

3rd window

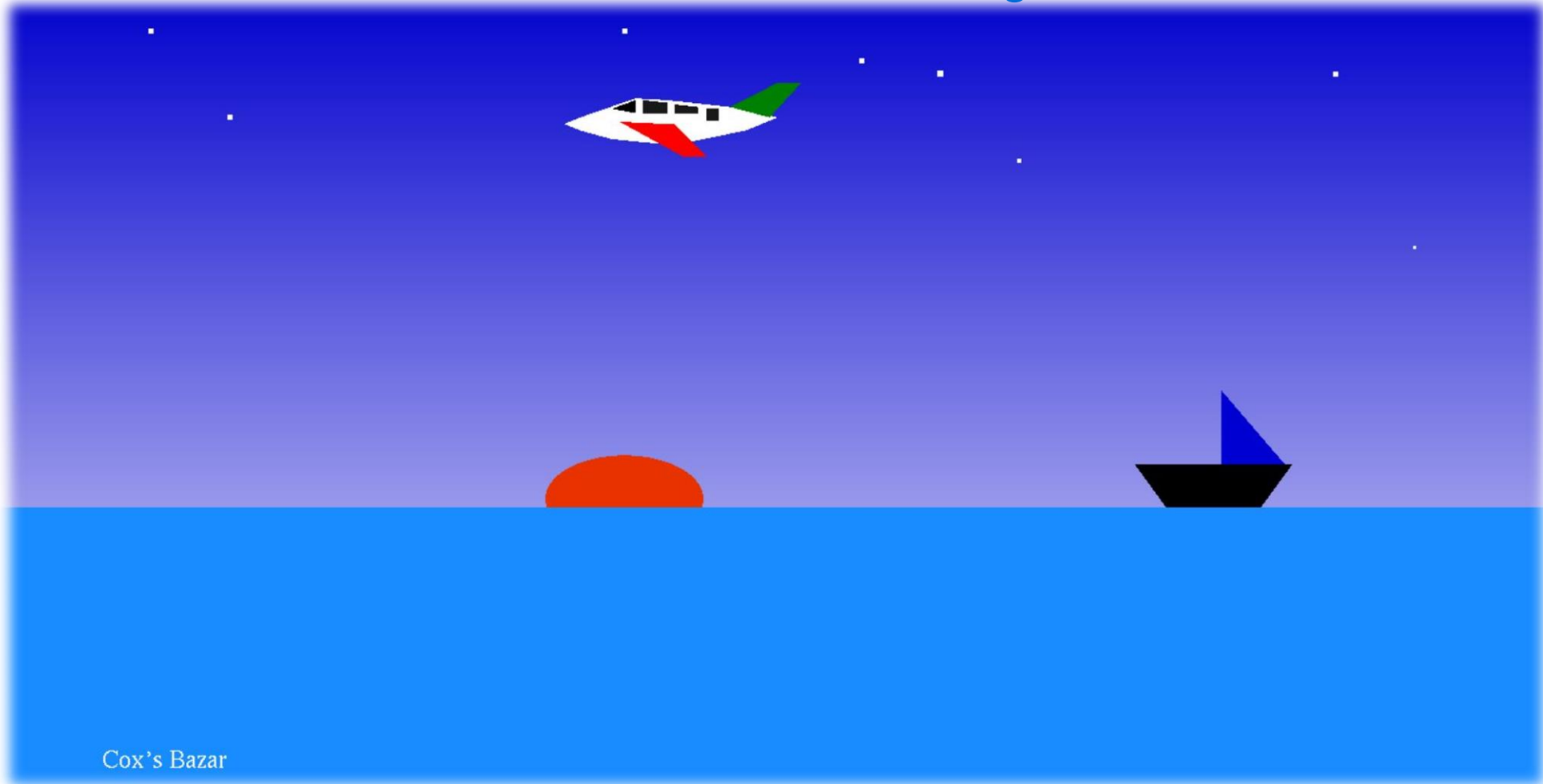➢Demonstrate the fly over the road of Dhaka city in the evening.

Dhaka City

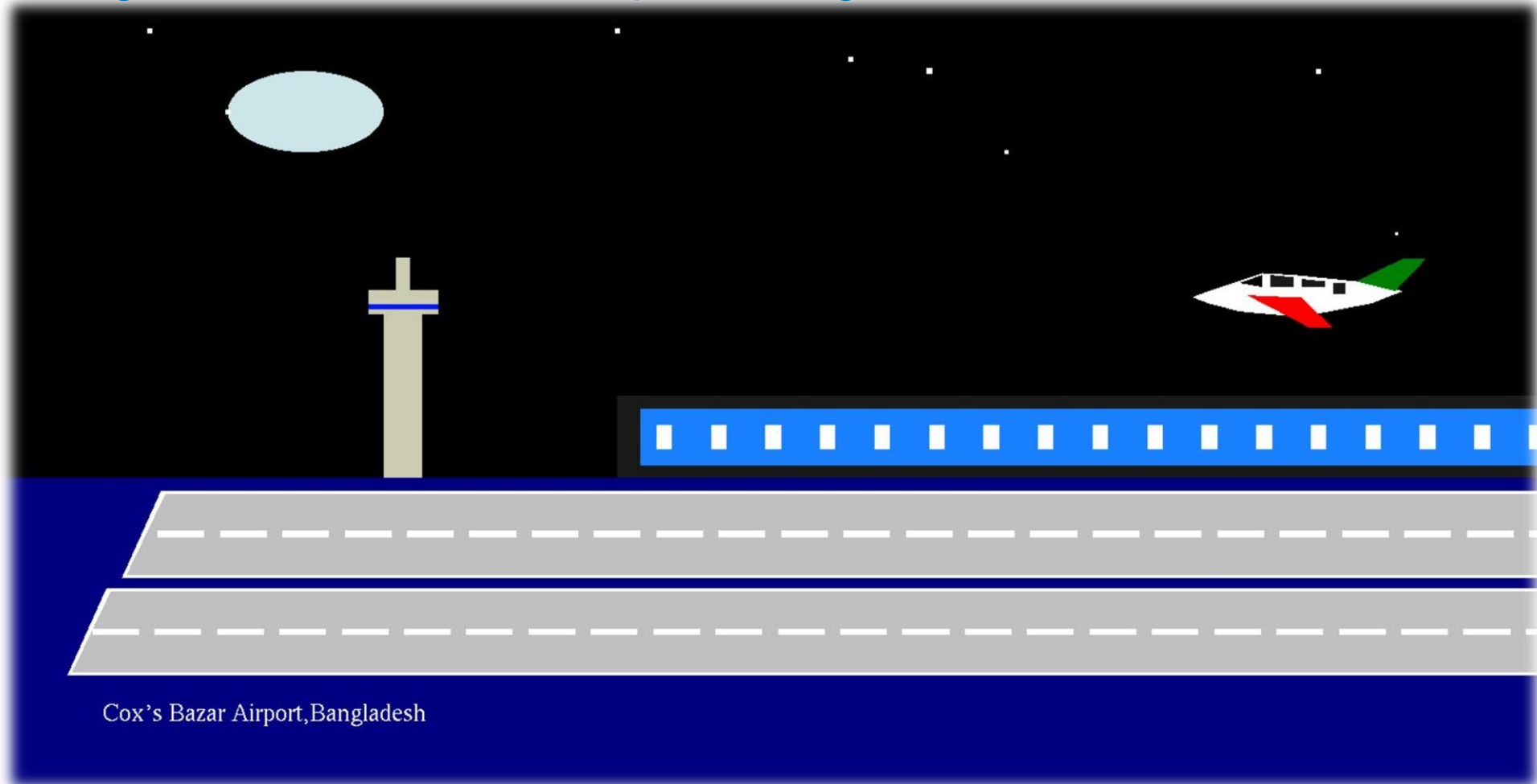# 4th window

> Flying over the chattagram hill-tracks at evening.

Chattagram hill-tracks

5th window

➢Flies over the beautiful sea of cox's bazar at night.

Cox's Bazar

6th window

➢Landing on the destination airport at night

Cox's Bazar Airport, Bangladesh

Exit window

➢The user can call for Exit window anytime.

Bangobondhu Airways.

Press Q for Exit

Weather change

➢The weather change is occurred here due to human interaction
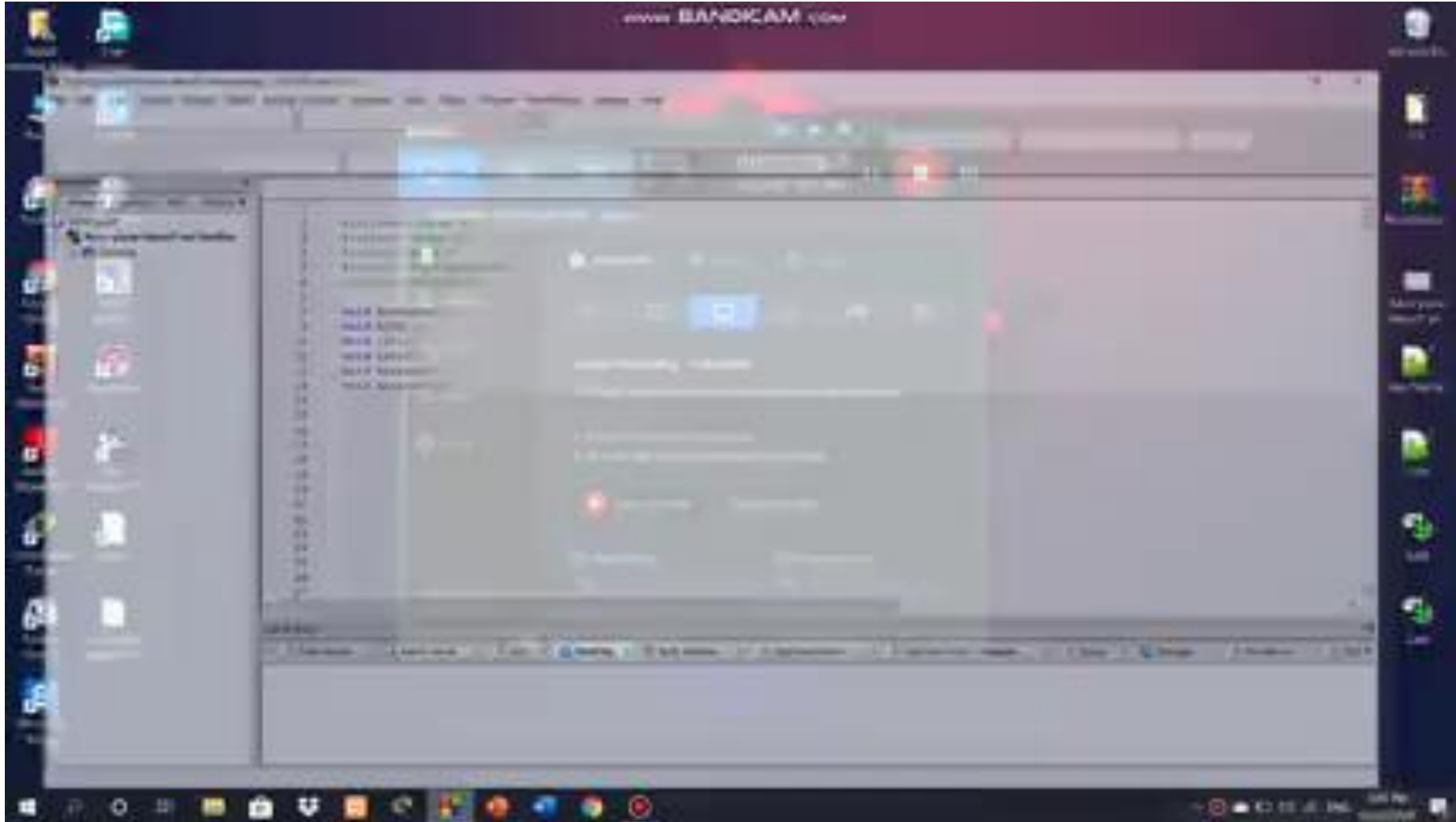
Changes in Final Iteration

➢ **Successful environment change (Start & Stop rain with cloud)**

➢ **Fly over AIUB campus**

➢ **Modification in background**

➢ **Translation of boat**

Conclusion

The scenario is only a demo. It can be more enhanced and beautified, along with more human interactive features. In future the members pledge to make it more efficient and human interaction based. Therefore, the scenario and the work will look more eye catching than now.

Project visual display

Thank you all for listening