## Introduction:

**Project Title :** Urban View.
**Group** : K
**Project Members :**

|   |   |
|---|---|
| 1. ALAM MONIRUL | 19-39971-1 |
| 2. INZAMAMUL FARIDEE NUR | 19-39994-1 |
| 3. DILRUBA KHANAM JESEY | 19-39979-1 |

## Project Statement:

Urban View captures the scenic atmosphere of a Urban city. Cars driving through the roads, Organized rows of trees, bridge, windmill, moon, star night life etc. So, the project will have 2 modes.
-Day mode by default.
-Night mode.
There will be moving cars, boat, plane and train on the bridge. User can the direction of the boat by doing user input.

## Methodology:

For all the background objects ( Road, Road Lines, Border, Buildings , Sky, bridge, windmill etc, we have used GL_QUADS and GL_POLYGON   for data type we have chosen float for easier calculation of position. We have used glColor3ub() function to add colours to our objects.
We have used GL_QUADS to draw the cars and boat in order to move them we have used the glTranslated() function and used a variable inside it so that we can modify the speed of the cars. To Modify the speed of cars, we have used the glutTimerFunc() function to call the update function simultaneously.
We have used the glTranslate() function and glScale() function to the object.
We have used glutKeyboardFunc() function to add features of pressing various buttons to change into the night mode, move the object like boat,plane, car etc.
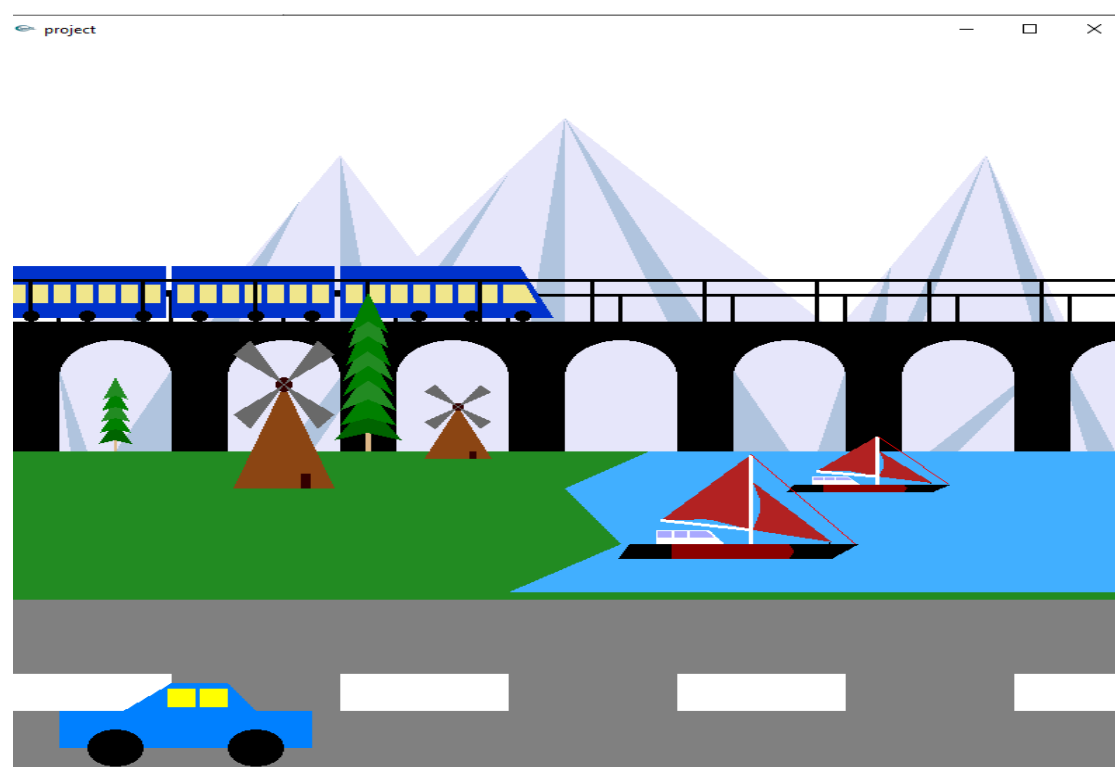
## Significance Of The Project:

By doing this project, We are learning to draw an objects , how to move an objects ,to make the object bigger & smaller. Learning to use the

handler function to take input from keyboard by user. This will help us in the future "OpenGL" projects. It will help us in the Game development .

## Conclusion:

Overall, Our project is mainly to capture the atmosphere of a Urban city. We used the concept of translation and scaling based on the project. Though, we can improve this project by doing more objects, animations, Dynamic weather like rainy and cloudy and more user Input as much as possible
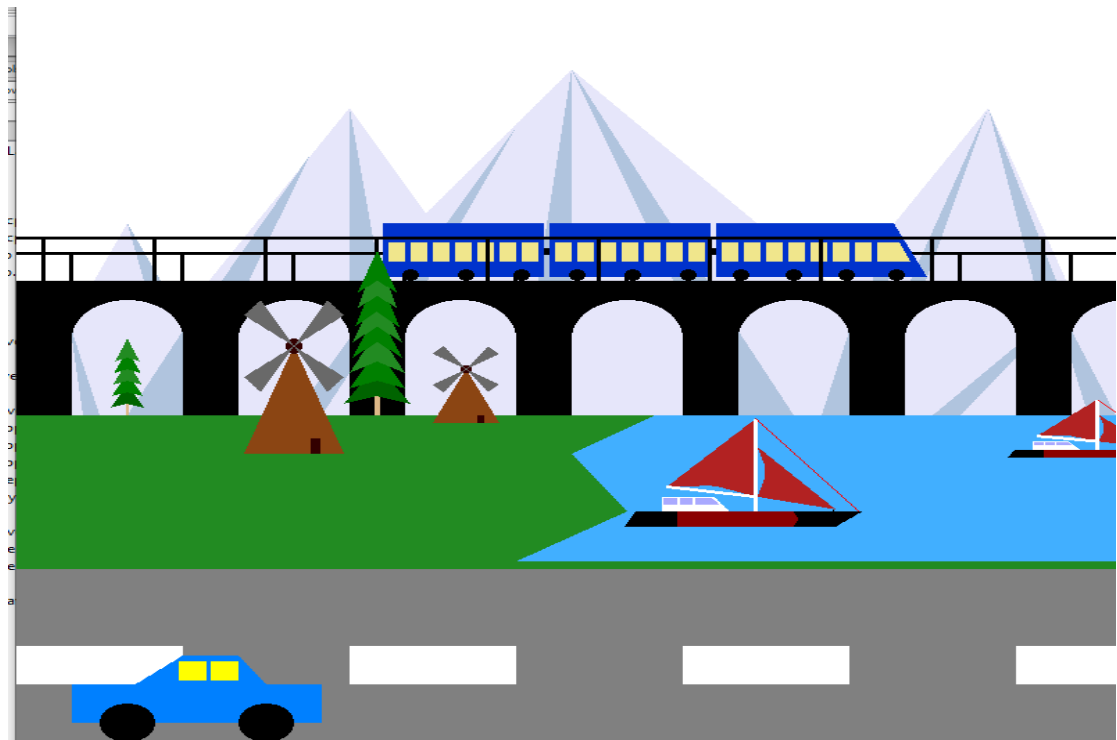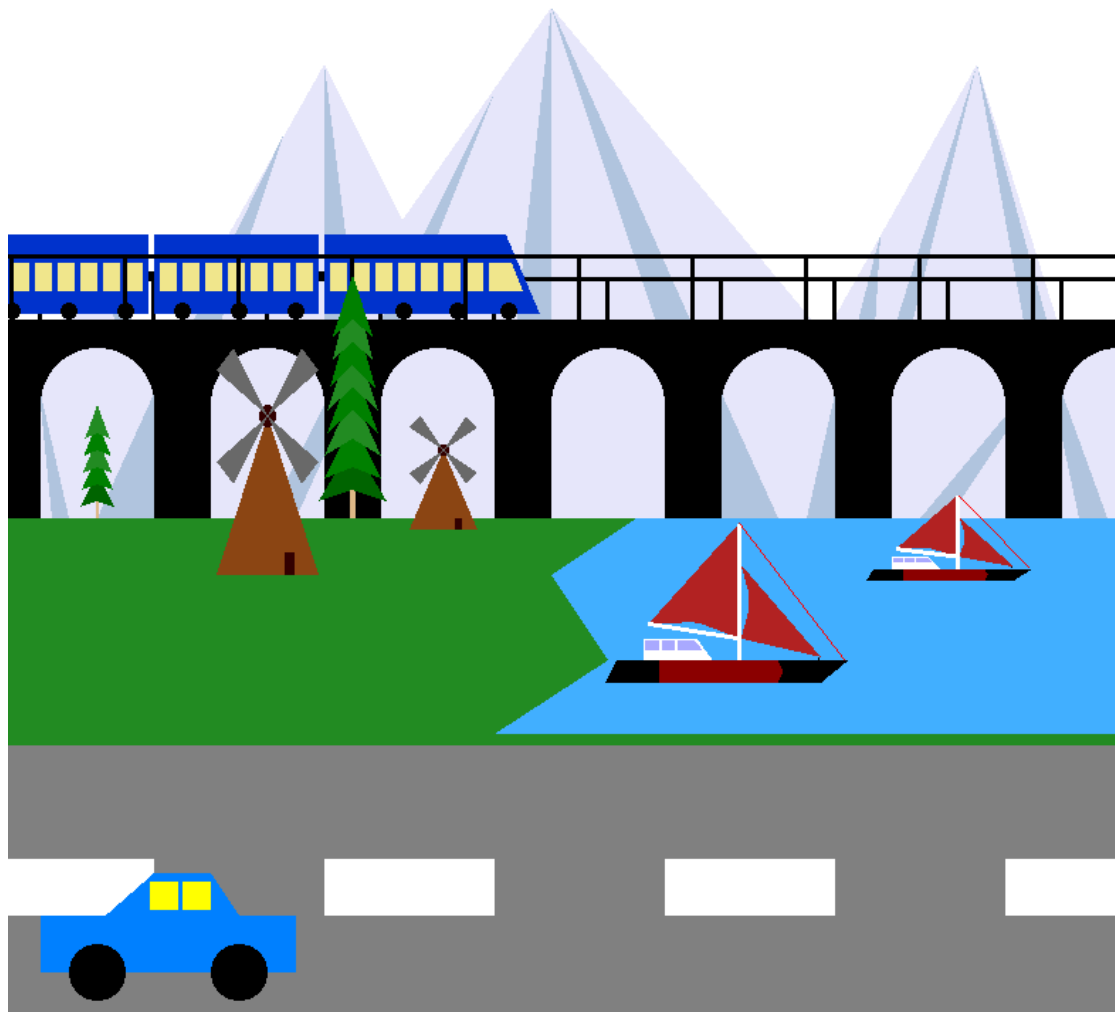
## Screen-Shot Of The System:



**Day Mode**

**Night Mode**



**Moving Plane**

**Moving Train**



**Moving Car**

**Moving Boat and moving Windmill**
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