Final Term Project Report

Computer Graphics [D]

21 April 2022

Project Name	Modern City View

Table 1: Project

1.	2.
Tutor Name	Group Number
Md Masum Billah	05

Table 2: Faculty, Group number

Name.	ID.
Ashraful Islam	20-42010-1
Arefin Hamim	20-42117-1
Tahamidul Haque	20-42139-1
Sudipto Saha	20-42143-1

Table 3: Group members

Contents

1 Introduction

Only vector images are used in computer graphics. Keep in mind that raster images are only pasteurized and then projected on the projector. Only raster images are shown on the projector. Raster images are made up of a series of pixels. Vector images, on the other hand, are created using mathematical formulas rather than pixels.There are some basics definitions about Computer Graphics. GL (Graphics Library): Library of 2-D, 3-D drawing primitives and operations API for 3-D hardware acceleration. GLU (GL Utilities): Miscellaneous functions dealing with camera set-up and higher-level shape descriptions GLUT (GL Utility Toolkit): Window-system independent toolkit with numerous utility functions, mostly dealing with user interface.

2 Proposal

In this project, we design a scenario of modern city view. In this scenario, we have a building, a plane, moving cars along the road trees boat, river, sun, moon ,cloud . To complement the whole scenario we have light blue skies. Then it will be convert into night ,evening and afternoon color. The boat is moving and also cloud are moving ,plane is moving. After pressing upper button the car will be started to move if we clicked on J button the boat will move.

3 List of object

- Cars
- Plane
- Clouds
- Phone both
- Blue house
- Red house
- Twin tower
- Boat
- Moon
- Sun
- Road
- River
- Trees
- sky

4 Hardware Requirements

Therefore we used some hardware necessaries those are

- Pentium or Higher
- 2 GB Ram or more
- A standers keyboard
- Compatible mouse
- VGA monitor

5 Software Requirements

Therefore we used some software necessaries those are

- WINDOWS XP and higher version
- Open GL
- CodeBlocks C++
- WINDOWS 10

6 Project images

Here are the features of our project.

6.1 Trees

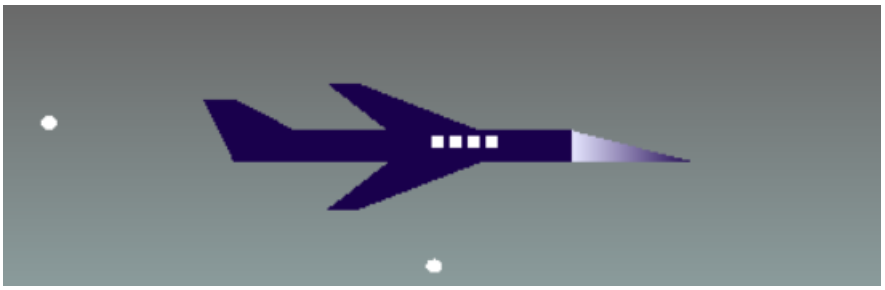
6.2 Cloud

6.3 Blue house

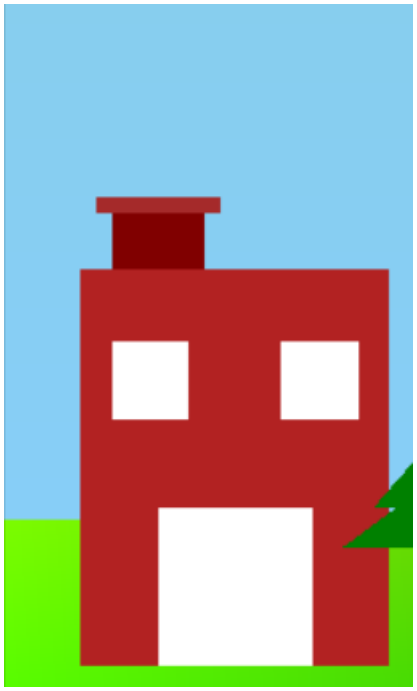
6.4 Boat and river

6.5 Twin Tower

6.6 Plane



6.7 Red house



6.8 Cars

7 Function Representation

Object Name.	Function.
cars	
plane	
clouds	
blue house	
red house	
twin tower	
phone both	
river	
boat	
trees	
road	
sun	
moon	
sky	

Table 4: Functions

8 Contribution

Member 1.	Member 2.	Member 3.	Member 4.	Total.
Ashraful Islam	Sultanul Arifeen Hamim	Tahamidul Haque	Sudipto Saha	
30	30	30	10	100

Table 5: Contribution percentage

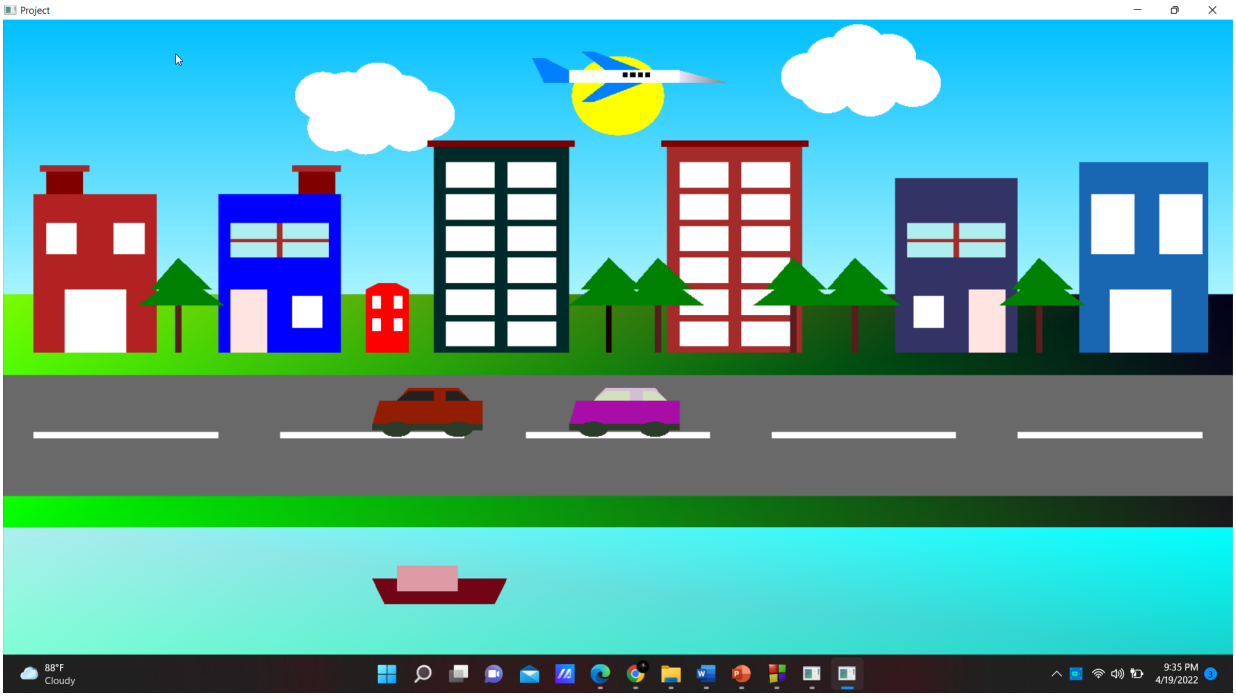
Name.	Contribution part
Ashraful Islam	Cloud, stars , plane and report
Sultanul Arifeen Hamim	blue house, red house, field, river, boat, twin tower, road strips, sun
Tahamidul Haque	trees, cars
Sudipto Saha	sky

Table 6: Contribution in project

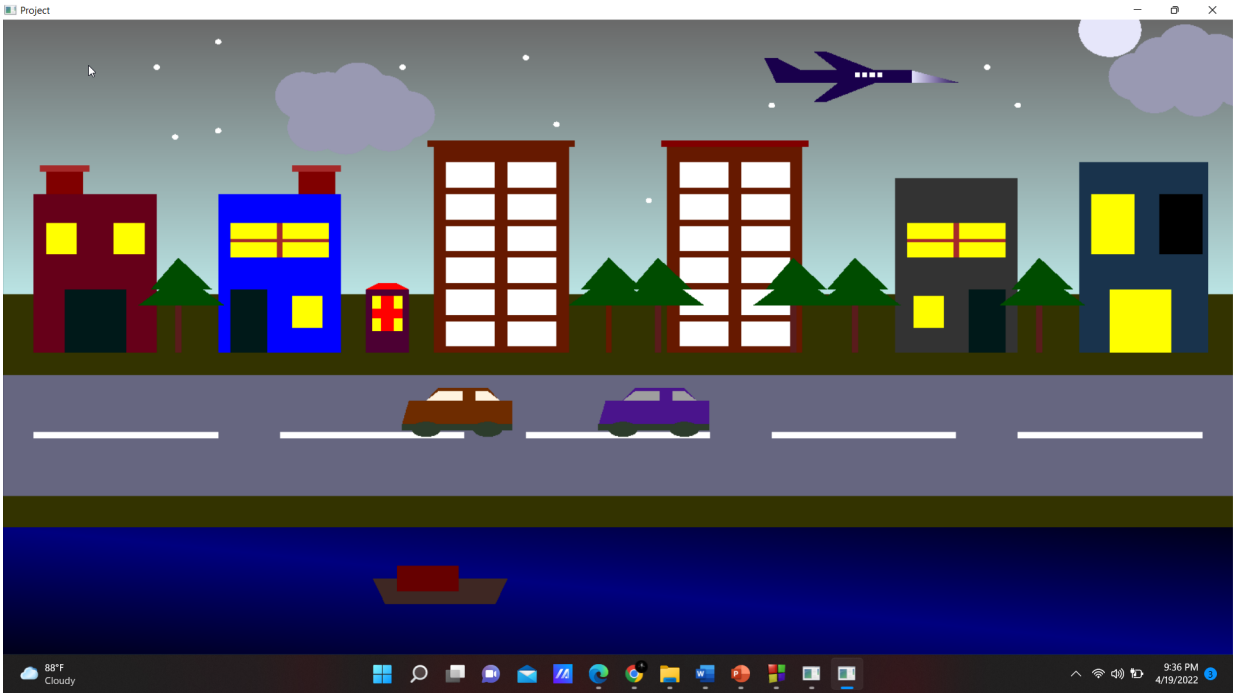
9 Final view of project

After the coding this is the final output of our project.

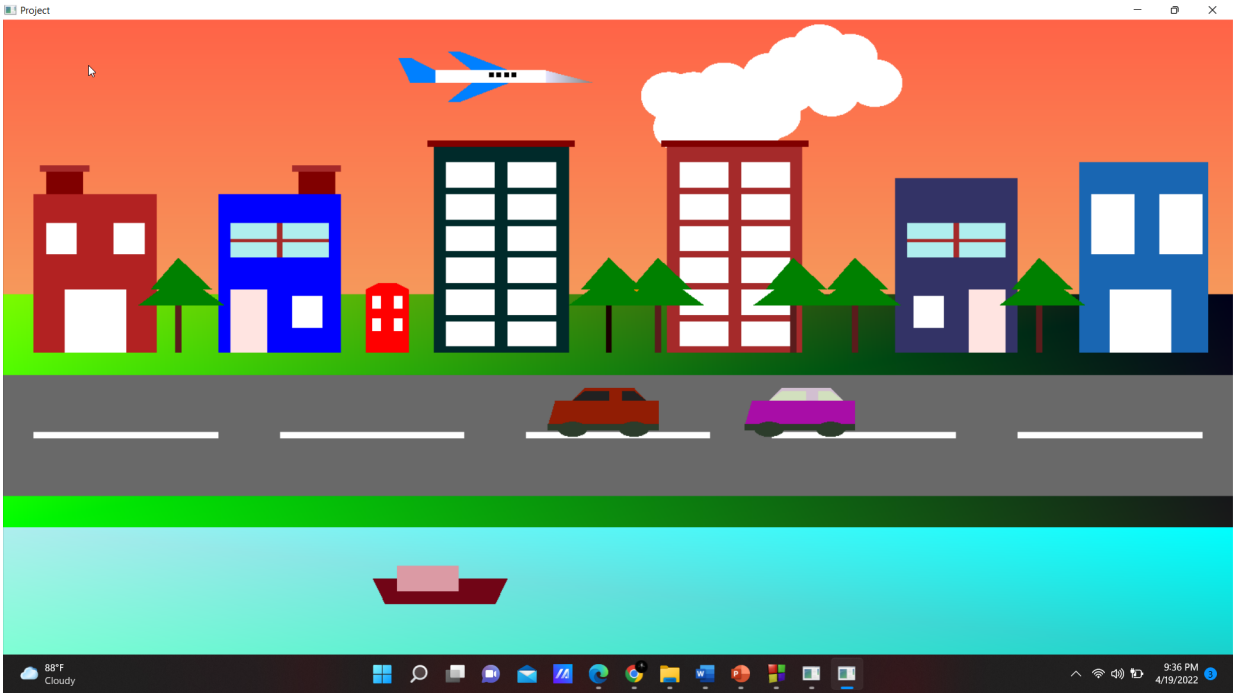
9.1 Day view of our project



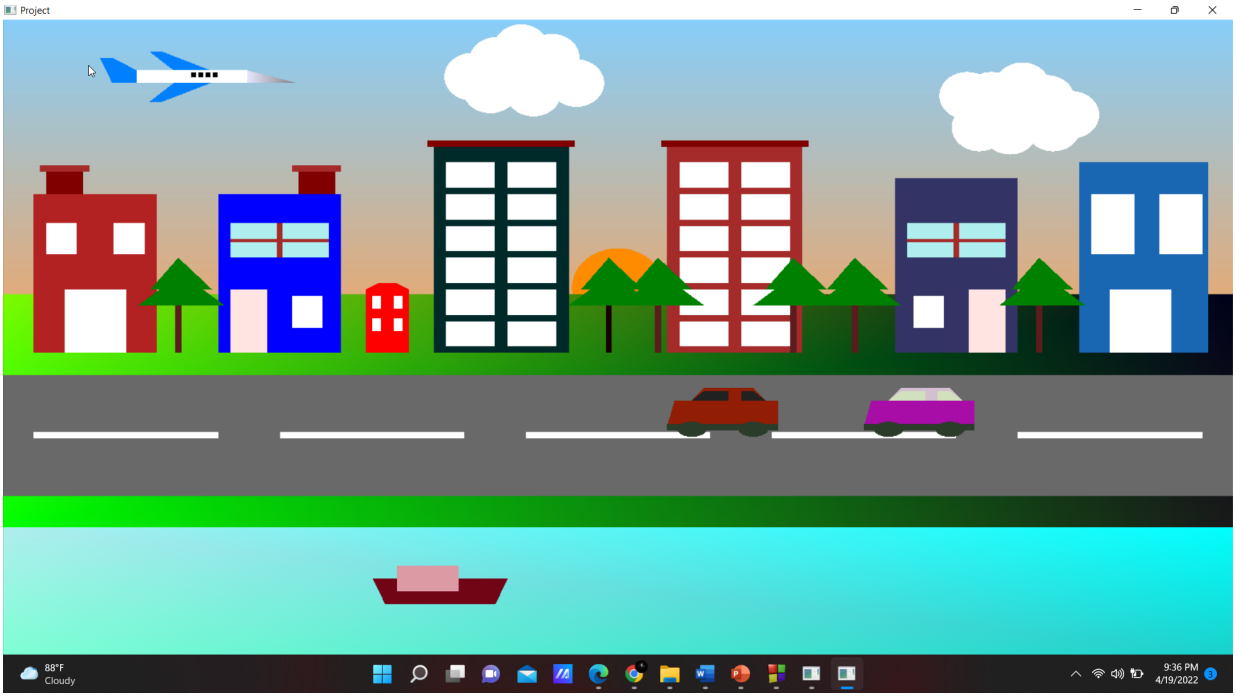
9.2 Night view of our project



9.3 Morning view of our project



9.4 Afternoon view of our project



10 Conclusion

We have seen a modern city view on the frontier side in this project's conclusion. We've shown that using code blocks and different functionalists, we can build a modern city view. To construct a plausible situation, the items should travel in various directions. This project will be useful in the future for creating a realistic city with natural effects and protection. Engineers will be able to comprehend their tasks more quickly after seeing this visual effect.