

Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering Semester: (Summer, 2021), B.Sc. in CSE (Day)

Course Title: Engineering Drawing **Course Code:** CSE-208 Section: 193DB

Lab Project Name: Duplex Floor Planning

Student Details

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Submission Date : 06/09/2021

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[For Teachers use only: Don't Write Anything inside this box]

<u>Lab Project Status</u>		
Marks:	Signature:	
Comments:	Date:	

TITLE OF THE EXPERIMENT: Duplex floor planning.

OBJECTIVES:

- 1. The main aim is to analyze and design the duplex floor plan by using the software Autocad 2022 version.
- 2. This experiment enhances the ability to use the drawing tools like polyline, trim, extend, mirror, circle, squares etc.

PROCEDURE:

1. Tools:

- a. Line
- b. Poly Line
- c. Rectangle
- d. Mirror
- e. Rotate
- f. Move
- g. Copy
- h. Extend
- i. Trim
- i. Erase
- k. Offset
- 1. Isolate
- m. Press pull
- n. Filet
- o. Box
- p. Union
- q. Extrude

2. Design:

There are 2 floor planning designs drawn in 2D.

The first floor planning has a living room, kitchen, laundry, toilet, bedroom, bath, study room and garrage.

The second floor planning has three bed rooms, two toilets, kitchen, laundry, bath, one guest room, staircase space.

The overall dimension of these both floors are 50*25 fit.

3. Measurements of the sections:

{ For first floor planning } :

- a. Living room: 245'*235.5'
- b. kitchen: 91.5'*78'
- c. Laundry: 87'*88.5'
- d. Toilet: 36'*60'
- e. Bedroom:88.5'*70.5'
- f. Bath: 127.5'*72'
- g. Study room: 111'*162'
- h. Garrage: 175'*180'

{ For second floor planning }:

3 bedrooms:

- a. bedroom 1: 243'*156'
- b. bedroom 2: 127.5'*112'
- c. bedroom 3: 144'*127'5'

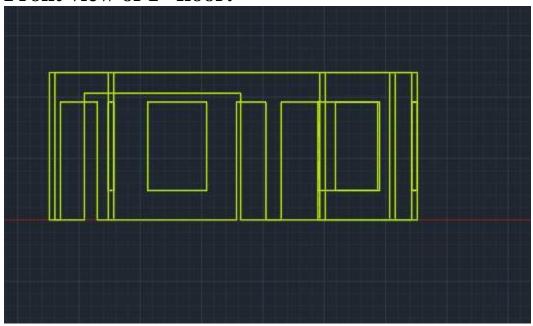
2 toilets:

- a. toilet 1: 60'*75.5'
- b. toilet 2: 63'*75.5'
- c. kitchen:111'*123'
- d. Laundry: 75'*72'
- e. Guest room:160'*70.5'

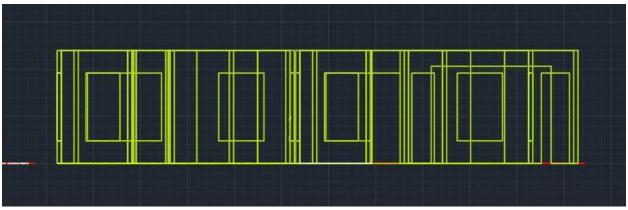
IMPLEMENTATION:

The 2D duplex floor plan with different views are given below.

Front view of 1st floor:



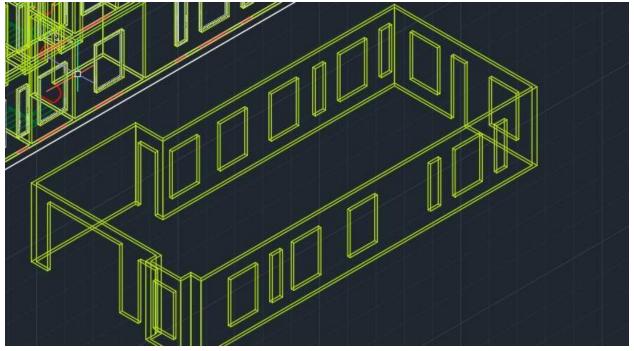
Back View of 1st floor:



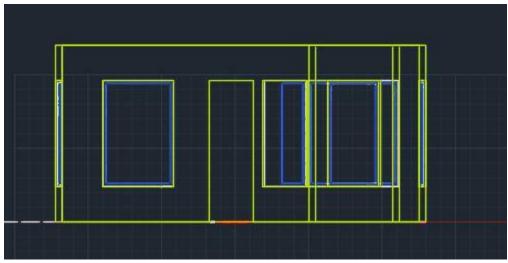
Top View of 1st floor:



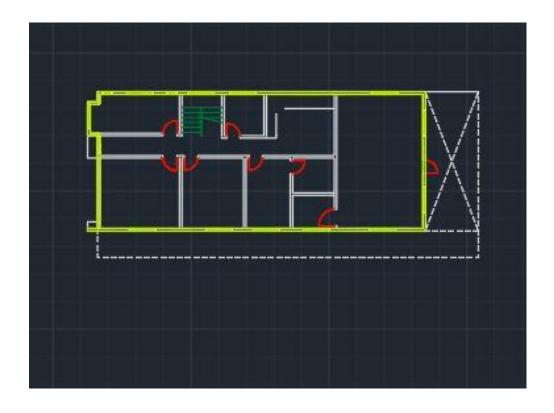
Se Isometric View of 1st floor:



Front View of the 2nd floor:



Left View of 2nd floor:



Proper Top View of 2nd floor:



Proper Left View 2nd floor:



RESULT:

I have successfully created the 2D duplex floor plan and have shown the various views of the two floor plans.

DISCUSSION:

- a. Each measurements is taken very carefully.
- b. Steps has been taken very carefully to draw the door of a room so that it fits perfectly.
- c. Whole object is selected very carefully to copy an object before moving.
- d. Each angle has been taken carefully to rotate an object.
- e. To use the filet tool, radius has been written first and then two corners has been selected carefully.