



# AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Faculty of Science and Technology

Associate Degree Program Computer Science

Department of Computer Science

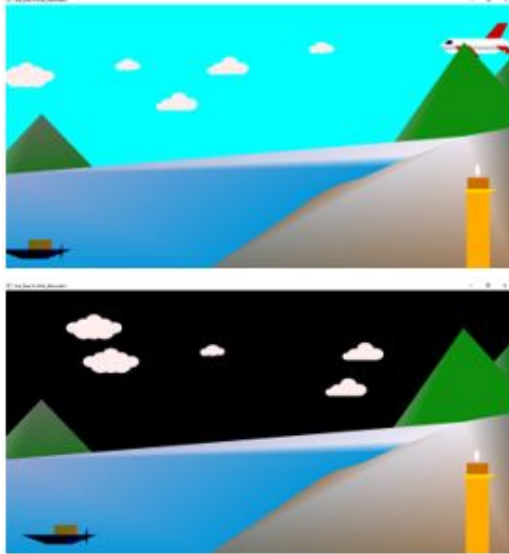
**CSC 3224: Computer Graphics**

## **Project Information**

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**Project Title: SEA BEACH WITH MOUNTAINS.****Features & Description**

We have made a scenic view of a sea beach with mountains and a lighthouse. It also has a night view.

**Features:**

1. The beach has mountains and a light house on it.
2. We have created a night view with a starry night.
3. We have a moving plane and a boat.

**Description:**

We have used `GL_POLYGON` for the first right most mountain because to create the image we need five points and we also have used the concept of shading for indication the direction of the light. The second mountain from the right side was created using `GL_TRIANGLES`.

We have used the concept of Beizer Curve for shaping the clouds, the beach and the sea. We have used multiple control points to curve them.

The boat and the plane both a moving function, `glTranslatef ()`. For the linear movements we have used Translation to create the next pint of their position. And the models are created using `GL_POLYGON`.

We also have a night view function. When the 'N' key is pressed on the keyboard, the sky color changes from sky-blue to dark and some stars are visible.

We used `glPushMatrix()` and `glPopMatrix()` to move the objects from foreground and background.

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**Evaluation:**

ID	Student Name	Sec	Code (15)	Viva (15)	Idea (7.5)	Report (7.5)	Demo (5)	Total (50)
20-43230-1	Shaif Ahamed Tamim	I						
20-43425-1	Abdullah Al Soad	I						
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Demo Submission Date: 23-Aug-2022      Final Submission Date:  
23-Aug-2022

External Information

Faculty Name	Signature
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Md. Masum Billah