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# **UNIVERSITY INSTITUTE OF COMPUTING**

## **PROJECT REPORT ON IMAGINED HORIZONS: THE LIGHTBULB OF SUSTAINABILITY**

**Program Name: BCA**

**Subject Name/Code: Desktop Publishing(23CAP-204)**

**Submitted by:**

**Name:** Divyanshu Waldia

**UID:** 23BCA10453

**Section:** BCA – 5 “A”

**Submitted to:**

**Name:**Ms. Shivani Chandha

**Designation:** Professor

# **ABSTRACT**

## **Introduction:**

This digital artwork symbolizes the relationship between nature, sustainability, and innovation. The submerged lightbulb houses a peaceful scene of an eco-friendly landscape with wind turbines, a lone figure walking with a dog, and a cozy house, representing an ideal future powered by green energy. The surrounding ocean and distant ship suggest both the isolation and interconnectedness of this vision within our vast world. This artwork encapsulates a vision of sustainability, where renewable energy and natural landscapes coexist within a fragile, protected environment.

## **Technique:**

The creation of this digital artwork involved three primary Photoshop techniques:

1. **Layering and Compositing:** Used multiple layers to organize and blend elements like the lightbulb, landscape, and ocean, creating a cohesive scene through precise positioning and transformations.
2. **Blending Modes and Transparency:** Applied blending modes, opacity adjustments, and layer masks to create the effect of the lightbulb partially submerged in water, enhancing realism.
3. **Colour Correction and Detailing:** Adjusted brightness, contrast, and saturation to unify the colour palette. Added shadows, highlights, and details like seagulls and a ship to enhance depth and cohesion.

## **System Configuration:**

- **Software:** Adobe Photoshop (Version 2024 or later)
- **Operating System:** Windows 10 or macOS Mojave (or newer)
- **Processor:** Intel Core i5 (8th generation) or AMD equivalent
- **RAM:** 8 GB (16 GB recommended for optimal performance)
- **Graphics Card:** NVIDIA GTX 1050 or AMD Radeon RX 560 (or better)
- **Storage:** At least 5 GB free space

# **SUMMARY**

## **Tools Used:**

## Image Selection Tools:

- **Pen Tool:** To create precise selections around the elements like the ship, the island, and the light bulb.
- **Quick Selection Tool:** To quickly select large areas like the sky and the ocean.
- **Magic Wand Tool:** To select areas of similar color, like the sky or the ocean.

## Layer Manipulation Tools:

- **Layers Panel:** To organize and manage different elements of the image.
- **Layer Masks:** To selectively reveal or hide parts of a layer.
- **Layer Blending Modes:** To blend layers together in creative ways.

## Color Correction and Adjustment Tools:

- **Curves:** To adjust the tonal range of the image.
- **Levels:** To adjust the overall brightness and contrast.
- **Color Balance:** To adjust the color balance of the image.
- **Hue/Saturation:** To adjust the hue, saturation, and lightness of specific colors.

## Other Tools:

- **Transform Tool:** To resize, rotate, and skew elements.
- **Brush Tool:** To paint and add details.
- **Smudge Tool:** To blend edges and create a more realistic look.
- **Filter Gallery:** To apply various filters like blur, sharpen, and noise reduction.

# Process:

### 1. Image Selection:

- Choose base images that complement each other in terms of color palette, style, and mood.
- Select images with elements that can be combined to create a surreal scene.

### 2. Image Preparation:

- Open the selected images in Photoshop.
- Crop and resize the images to fit the desired composition.
- Use levels and curves to adjust the overall contrast and color balance of each image.

### 3. Background Creation:

- Create a new document in Photoshop with the desired dimensions.

- Place the sky image as the background layer.
- Use the pen tool or quick selection tool to isolate the ocean from its background.
- Place the ocean layer over the sky layer and blend the edges using layer masks or blending modes.

#### 4. Adding the Light Bulb:

- Isolate the light bulb from its background using the pen tool or quick selection tool.
- Place the light bulb layer over the ocean layer.
- Apply a subtle glow effect to the light bulb using the outer glow layer style.

#### 5. Adding the Landscape:

- Isolate the landscape from its background.
- Place the landscape layer inside the light bulb, using layer masks to create the illusion of it being inside the bulb.
- Adjust the color and lighting of the landscape to match the overall scene.

#### 6. Adding the Ship and Island:

- Isolate the ship and island from their backgrounds.
- Place them in the desired positions, adjusting their size and perspective.
- Use layer masks and blending modes to blend the ship and island into the scene.

#### 7. Adding the Birds:

- Place the birds in various positions around the scene.
- Adjust the size and opacity of the birds to create a sense of depth and movement.

#### 8. Final Adjustments and Finishing Touches:

- Use adjustment layers (Curves, Levels, Color Balance, etc.) to fine-tune the overall color and contrast of the image.
- Add subtle lighting effects and atmospheric haze to enhance the mood of the scene.
- Use the clone stamp tool and healing brush to remove any imperfections or unwanted elements.
- Sharpen the image slightly to increase detail.

## Output:

