**Assignment No: 2**

**Problem Statement:** Why given option is chosen?

**Algorithms:**

The Algorithms we are going to use in Project:

1. LSB (Least Significant Bit)

Why we choose above algorithms?

**Benefit of LSB:**

The benefits of LSB are its simplicity to embed the bits of the message directly into the LSB plane of cover-image and many techniques use these methods. Modulating the LSB does not result in a human-perceptible difference because the amplitude of the change is small. Therefore, to the human eye, the resulting Stego-image will look identical to the cover-image. This allows high perceptual transparency of LSB.

**The Advantages of LSB Algorithm are:**

* Popularity
* Easy to understand and comprehend
* High perceptual transparency
* Low degradation in the image quality