Instructor: Mr. Usman Asghar   **Held on: 20/11/2023**

Course Title: Computer Vision   Course Code: CS456

Total Marks: 10   **Time: 50 Minutes**

Student Name: University ID:

❖ Question# 1   [CLO 2]:   (10 Marks)

1. **Perform the following:**
    o   Create a jupyter notebook
    o   Mount your Google Drive
    o   Add code block and configure the notebook according to your task
    o   Upload an image from your drive and show the image in different modes (gray, RGB, BGR)
    o   Calculate and show the histogram of the image, add comments and explain the histogram
    o   Apply histogram equalization and show and explain the image
    o   Apply image smoothing and sharpening filter (which one is better)
    o   Reshape the image in lower dimensions and the optional task is to try to maintain the image quality
    o   Submit the notebook on LMS

☺ Good Luck ☺