



Desktop / Web Applications

- For all assignment, use Languages as Python, JavaScript, HTML, and CSS.
- Frameworks as Django, Flask, Angular
- Database as MySQL, MS-SQL(SSMS), SQLite
- For all Assignments Login screen is compulsory.
- While sending assignments give your login id and password, so we can check your application.
- From below, you can complete any one assignment.

Assignment 1 [OCR Identification]

- Scan any QR Code. (For this you can give option of browse image)
- Display QR Code & Info. on the Screen
- Ask options...a. Open Camera b. Call image from existing images [already available in desktop/laptop]
 - For Camera...
 - a. Open Camera Window
 - b. Capture image with a press of a Button
 - For Images...
 - a. Display existing Images from All Media
 - b. Select the Image
- Display Result [OCR] along with the Image

Assignment 2 [Quality Check]

- Scan any QR Code (For this you can give option of browse image)
- Display QR Code & Info. on the Screen
- Display a List of 5 Questions with 2 Options to select from [OK / NOT OK].
- User should be able to select the Answer by way of a Tick mark on the Answer choice
- Display Summery [Question No. with Answer], once all the Questions are answered
- Display Result as Total Score for OK [for example, 2 / 5] along with its Pie Chart

Assignment 3 [Data Acquisition]

- Generate SQL Table having a single Value that is changing randomly [provide specific range that should be displayed on the screen] at a frequency of 1 sec.
- Display this continuously changing Value on the screen
- Provide field settable 2 Set Points, Hi & Lo
- Provide START & STOP Buttons on the screen
 - START...Start displaying Current Values [randomly changing] on the screen
 - STOP...Display Last Value that should be latched on the screen
- Generate online Line Graph for last 10 Values with Time Stampings & dynamic Y-Axis
- Provide Hi / Lo Set Points related Lines to display if the Values are crossing the same
- In case of, Values crossing the Set Points, the same should be displayed in **Red**