DAILY ASSESSMENT REPORT

Date:	30 May 2020	Name:	Gagan M K
Course:	LOGIC DESIGN	USN:	4AL17EC032
Topic:	 Applications of Programmable logic controllers: 	Semester & Section:	6 th sem & 'A' sec
Github Repository:	Alvas-education-foundation/Gagan- Git		

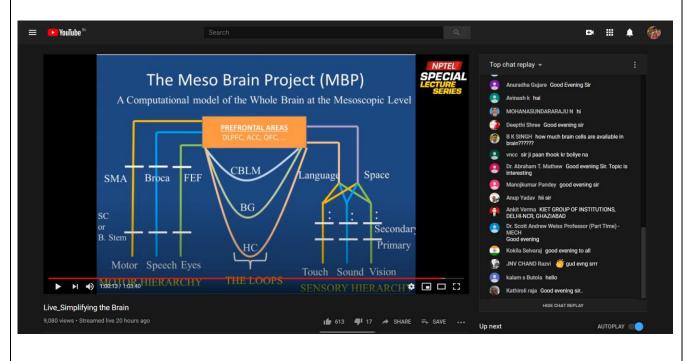


Report – Report can be typed or hand written for up to two pages.

Applications of Programmable logic controllers:

- High-Performance Controllers in a Compact, Secure Package Today's industrial applications require faster performance and more reliable connections.
- Emerson's Programmable Automation Controllers feature an extensive range to support scalable automation and minimize downtime.
- Redundant by design, these compact controllers use PROFINET for better performance and productivity, and are interoperable with most open industry standards. Rugged, fanless design means more durability and better performance in any environment.
- In the most basic terms, a programmable logic controller (PLC) is a computer with a microprocessor but has no keyboard, mouse or monitor. It is essentially built to withstand very harsh industrial environments.
- A PLC performs only a single set or sequence of tasks, with greater reliability and performance, except when it is under real-time constraints. This is in contrast to regular PCs and smartphones that are designed to execute any number of roles simultaneously within the Windows framework.
- The PLC has a number of features that you don't find in normal computers, such as protection from the open area conditions like heat, dust and cold.
- It is low cost compared with other microcontroller systems. When you're using a PLC in various applications, you only need to change the software component for each application

Attended the Live Bonus Session on "LIVE_SIMPLIFYING THE BRAIN"



Date:	30 May 2020	Name:	Gagan M K
Course:	The Python Mega Course	USN:	4AL17EC032
Topic:	Python for Image and Video Processing with OpenCV	Semester & Section:	6 th sem & 'A' sec

AFTERNOON SESSION DETAILS Image of session: Your progress v **1** Udemy The Python Mega Course: Build 10 Real World Applications ★ Leave a rating Course content 222. Capturing Video 20min Section 27: Application 6: Build a Webcam Motion Detector 0 / 3 | 53min Section 28: Interactive Data Visualization with Bokeh Section 29: Webscraping with Python Beautiful Soup 0 / 4 | 23min Section 30: Application 7: Scrape Real Estate 💙 Property Data from the Web Section 31: Application 8: Build a Web-based $\,\,\,\,\,\,\,\,\,\,\,\,\,\,\,\,\,\,\,$ Financial Graph Overview Bookmarks Announcements 0 / 12 | 1hr 40min Section 32: Application 9: Build a Data About this course Collector Web App with PostGreSQL and Fl... A complete Python course for both beginners and intermediates! Master Python 3 by making 10 amazing Python apps. Section 33: Application 10: Project Exercise

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Topics:

- Introduction
- Installing the Library
- Loading, Displaying, Resizing, and Writing Images
- Batch Image Resizing (Practice)
- Solution
- Solution with Explanations
- Face Detection8.Capturing the video.

Coding:

• If haven't installed OpenCV yet, please do so by following the instructions below. If you do n't know if you have OpenCV, please open Python and type import cv2. If you don't get an error, it means OpenCV is installed.

To install:

- 1.Open the command line and type:pip install opency-python
- Then open a Python session and try:import cv2
- If you get no errors, that means you installed OpenCV successfully.

My opency installation didn't go well on Windows Solution:

- Uninstall opency with: pip uninstall opency -python
- Download a wheel (.whl) file from this link and install it with pip. Make sure you download the correct file for your Windows version and your Python version. For example, for Python 3.6 on Windows 64-bit you would do this:
- pip install opencv_python-3.2.0-cp36-cp36m-win_amd64.whl3.
- Then try to import cv2 in Python again. If there's still an error, then please type the following again in the command line:
- pip install opency-python4. Now you should successfully importev2 in Python.