

DAILY ASSESSMENT REPORT

Date:	30 May 2020	Name:	Gagan M K
Course:	LOGIC DESIGN	USN:	4AL17EC032
Topic:	<ul style="list-style-type: none"> Applications of Programmable logic controllers: 	Semester & Section:	6 th sem & 'A' sec
Github Repository:	Alvas-education-foundation/Gagan-Git		

FORENOON SESSION DETAILS

Image of session



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"

The Meso Brain Project (MBP)
A Computational model of the Whole Brain at the Mesoscopic Level

MOTOR HIERARCHY
SMA, Broca, FEF, SC or B. Stem, Motor, Speech, Eyes

THE LOOPS
PREFRONTAL AREAS (DLPFC, ACC, OFC, ...), CBLM, BG, HC

SENSORY HIERARCHY
Language, Space, Secondary, Primary, Touch, Sound, Vision

NPTEL SPECIAL LECTURE SERIES

Live_Simplifying the Brain
9,080 views • Streamed live 20 hours ago

Up next
AUTOPLAY

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:

The screenshot displays the Udemy interface for the course "The Python Mega Course: Build 10 Real World Applications". The video player is currently paused at 0:09 / 19:45. The course content sidebar on the right lists the following sections:

- 222. Capturing Video (20min)
- Section 27: Application 6: Build a Webcam Motion Detector (0 / 3 | 53min)
- Section 28: Interactive Data Visualization with Bokeh (0 / 17 | 58min)
- Section 29: Web scraping with Python BeautifulSoup (0 / 4 | 23min)
- Section 30: Application 7: Scrape Real Estate Property Data from the Web (0 / 8 | 1hr 14min)
- Section 31: Application 8: Build a Web-based Financial Graph (0 / 12 | 1hr 40min)
- Section 32: Application 9: Build a Data Collector Web App with PostgreSQL and Flask (0 / 11 | 2hr 47min)
- Section 33: Application 10: Project Exercise

About this course

A complete Python course for both beginners and intermediates! Master Python 3 by making 10 amazing Python apps.

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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 opencv-python`
- Then open a Python session and try:`import cv2`
- If you get no errors, that means you installed OpenCV successfully.

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

- Uninstall opencv with: `pip uninstall opencv -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 opencv-python4`.Now you should successfully importcv2 in Python.