

DAILY ASSESSMENT FORMAT

Date:	30/05/2020	Name:	Nishanth
Course:	Logic Design	USN:	4a17ec063
Topic:	1. Applications of Programmable logic controllers	Semester & Section:	6 th b-section
GitHub Repository:	nishanthvr		

FORENOON SESSION DETAILS

Image of session



What is a PLC? PLC Basics Pt1

A **Programmable Logic Controller**, or PLC, is a ruggedized computer used for industrial automation. These controllers can automate a specific process, machine function, or even an entire production line.

How does a PLC work?

The PLC receives information from connected sensors or input devices, processes the data, and triggers outputs based on pre-programmed parameters.

Depending on the inputs and outputs, a PLC can monitor and record run-time data such as machine productivity or operating temperature, automatically start and stop processes, generate alarms if a machine malfunctions, and more. Programmable Logic Controllers are a flexible and robust control solution, adaptable to almost any application.

Date: 29/05/2020
Course: Python
Python for Image and Video
Processing with OpenCV

Name: Nishanth
USN: 4a17ec063
Semester & Section: 6th and b section

AFTERNOON SESSION DETAILS

Image of session

The screenshot shows a Udemy video player for the course "The Python Mega Course: Build 10 Real World Applications". The video is titled "Section 26: Python for Image and Video Processing with OpenCV". The course content sidebar on the right lists the following sections:

- 215. Introduction (2min)
- 216. Installing the Library (1min)
- 217. Loading, Displaying, Resizing, and Writing Images (14min)
- 218. Batch Image Resizing (Practice) (1min)
- 219. Solution (1min)
- 220. Solution with Explanations (4min)
- 221. Face Detection (20min)

The video player shows a Python script in a code editor. The script is as follows:

```
import cv2
import glob

images=glob.glob("**.jpg")

for image in images:
    img=cv2.imread(image,0)
    re=cv2.resize(img,(100,100))
    cv2.imshow("Hey",re)
    cv2.waitKey(500)
    cv2.destroyAllWindows()
    cv2.imwrite("resized_"+image,re)
```

Program:

script that resizes all images in a directory to 100x100.

```
import cv2
import glob

images=glob.glob("**.jpg")

for image in images:
    img=cv2.imread(image,0)
    re=cv2.resize(img,(100,100))
    cv2.imshow("Hey",re)
    cv2.waitKey(500)
    cv2.destroyAllWindows()
    cv2.imwrite("resized_"+image,re)
```