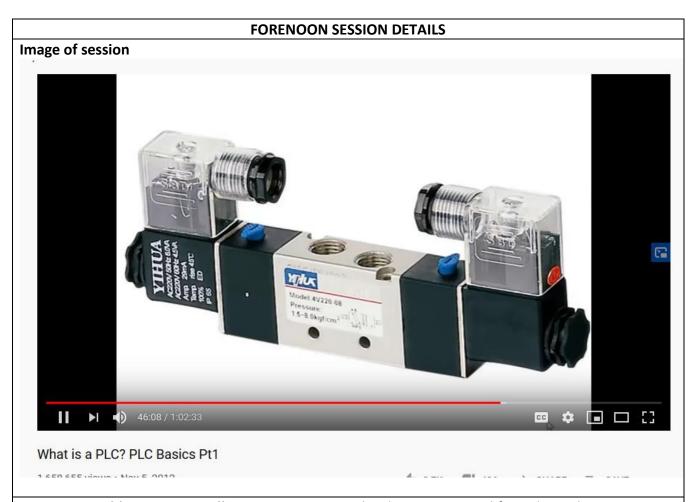
## **DAILY ASSESSMENT FORMAT**

Date:	30/05/2020	Name:	Nishanth
Course:	Logic Design	USN:	4al17ec063
Topic:	1. Applications of Programmable logic controllers	Semester & Section:	6 <sup>th</sup> b-section
GitHub	nishanthvr		
Repository:			



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?

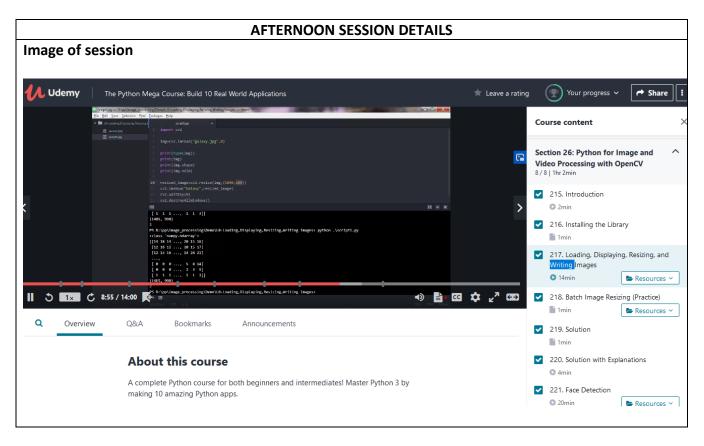
The PLC receives information from connected sensors or input devices, processes the data, and triggers outputs based on pre-programmed parameters.

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 Name: Nishanth Course: Python USN: 4al17ec063

Python for Image and Video Semester & 6<sup>th</sup> and b section

**Processing with OpenCV** Section:



## 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)
```