

DAILY ASSESSMENT FORMAT

Date:	29 MAY 2020	Name:	HARSHITHA H
Course:	LOGIC DESIGN	USN:	4AL18EC020
Topic:	Applications of programmable logic controllers	Semester & Section:	IV SEM & A SECTION
Github Repository:	harshithah		

FORENOON SESSION DETAILS

Image of session

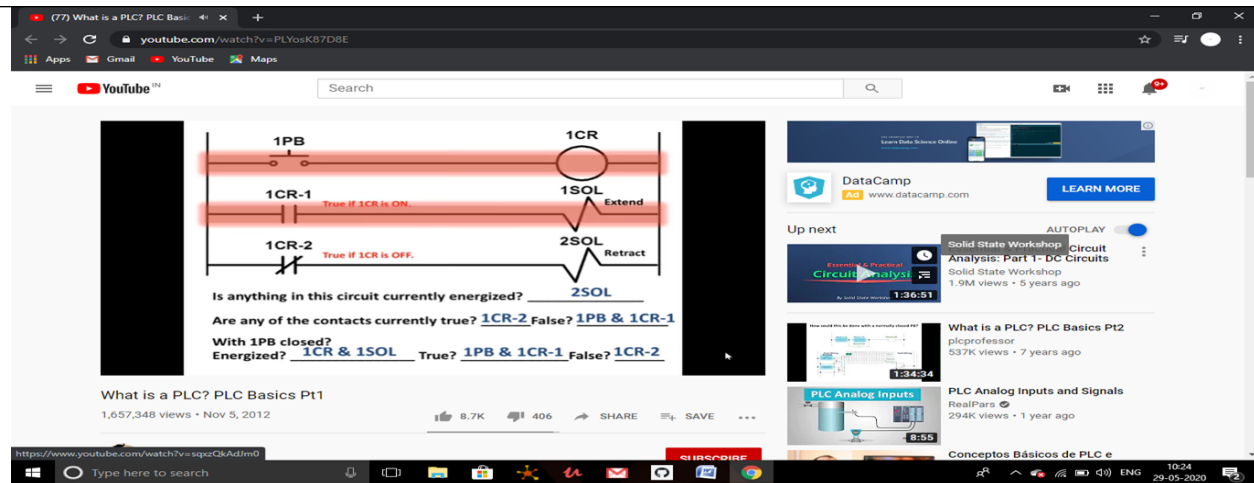
The image displays two screenshots of a YouTube video titled "What is a PLC? PLC Basics Pt1" by the channel "plcprofessor".

Top Screenshot: Shows a physical relay assembly. Labels with arrows point to various components: "Moving Contact", "ARMATURE", "SPRING", "COIL", and "POLE". The video has 1,657,348 views and was uploaded on Nov 5, 2012.

Bottom Screenshot: Shows a diagram titled "It is time for a small transition in how the contacts are designed." It illustrates two types of relay contacts:

- Left: "Rotates a common contact between the normally closed and the normally open." (A single contact rotating between two fixed contacts).
- Right: "Pulls a shorting bar between the normally closed and the normally open contacts." (A bar moving between two fixed contacts).

 The video has 1,657,348 views and was uploaded on Nov 5, 2012.



Report –

Day 2: LOGIC CIRCUITS

Applications of programmable logic controllers:

- PLCs are generally used in industries for controlling heavy machinery and processes like conveyor system, CNC machines etc.
- PLC usage can also be observed in day to day life
- Eg: automatic washing machines, cars, video cameras etc
- PLC has its applications in almost every automatic machine.
- Eg: Machine controls, Packaging, Material handling, similar sequential task as well as process control.
- Home automation
- Nuclear power generation plants
- Chemical industries- proportion of chemicals
- PLCs in all phase of automated industrializations.

Date:29 MAY 2020	Name:HARSHITHA H
Course: PYTHON	USN: 4AL18EC020
Topic:Python for image and video processing with OpenCV	Semester & Section: IV SEM & A SECTION

AFTERNOON SESSION DETAILS

Image of session

The top screenshot shows a video player interface for 'The Python Mega Course: Build 10 Real World Applications'. The video is at 3:25 / 14:00. The code editor overlay shows the following Python code:

```

import cv2
img=cv2.imread('galaxy.jpg',0)
print(type(img))
print(img)

```

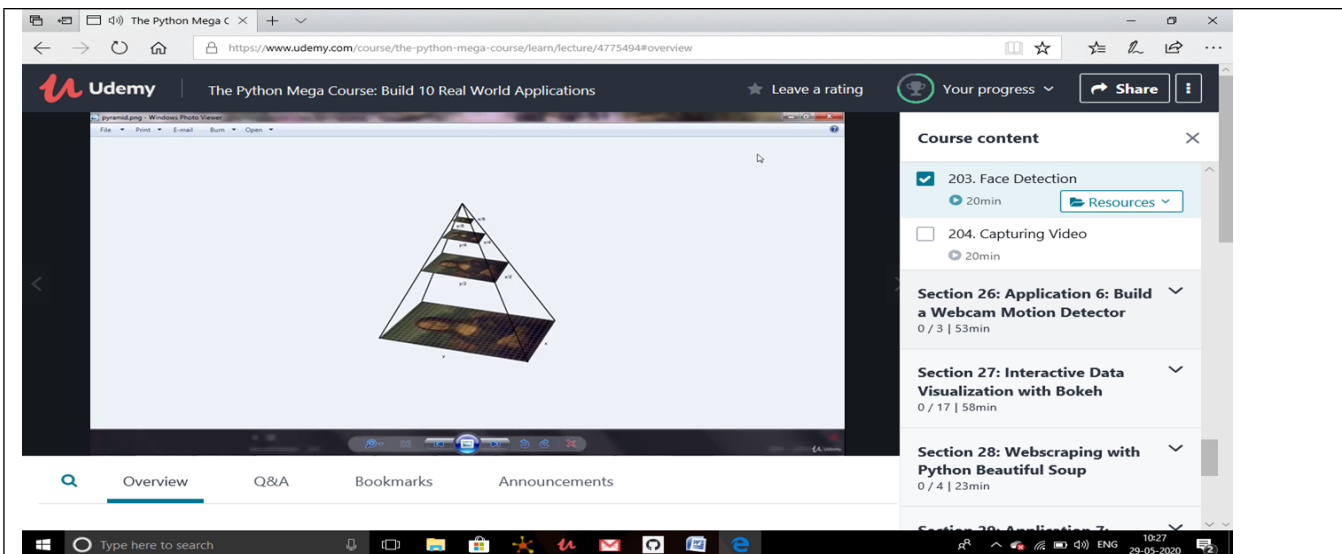
The bottom screenshot shows the same video player at 0:08 / 4:29. The code editor overlay shows the following Python code:

```

import cv2
import glob
img=glob.glob("*.jpg")
for image in img:
    img=cv2.imread(image,0)
    res=cv2.resize(img,(400,300))
    cv2.imshow("hey",res)
    cv2.waitKey(100)
    cv2.destroyAllWindows()
    cv2.imshow("resized"+image,res)

```

Both screenshots include a 'Course content' sidebar on the right. The top screenshot shows items 199 through 204, with item 199 'Loading, Displaying, Resizing, and Writing Images' selected. The bottom screenshot shows items 202 through 204, with item 202 'Solution with Explanations' selected. Below these, sections 26, 27, and 28 are listed.



Report –

PYTHON:

DAY 11: Python for image and video processing with OpenCV

- Installing the library
- Loading, displaying, resizing and writing images
- Face detection
- Capturing video