

DAILY ASSESSMENT FORMAT

Date:	29 MAY 2020	Name:	HARSHITHA H
Course:	LOGIC DESIGN	USN:	4AL18EC020
Topic:	1. Analysis of clocked sequential circuits 2. Digital clock design	Semester & Section:	IV SEM & A SECTION
Github Repository:	harshithah		

FORENOON SESSION DETAILS

Image of session

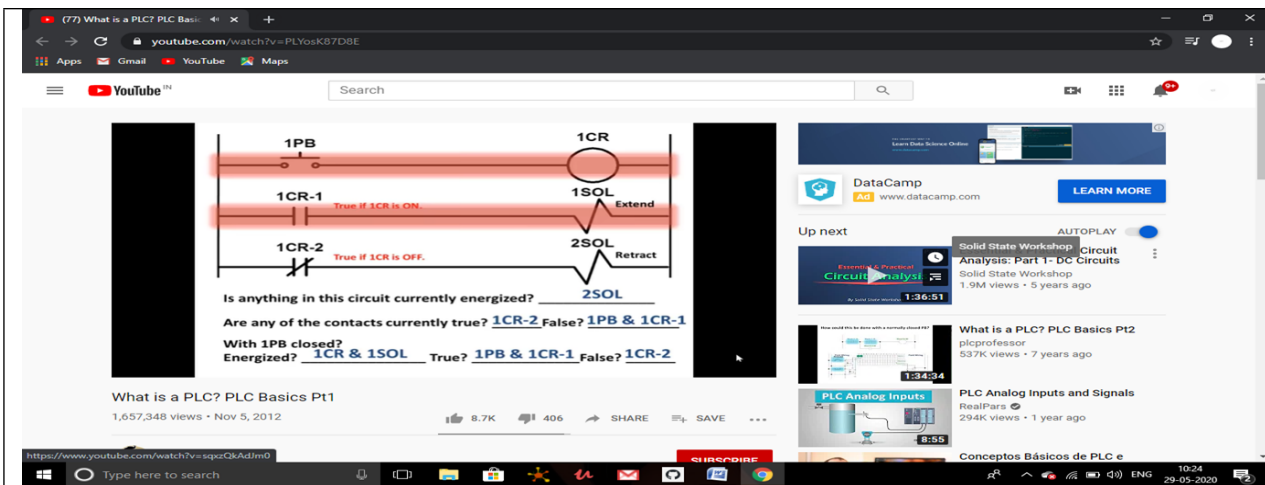
The image displays two screenshots of a YouTube video titled "What is a PLC? PLC Basics Pt1" by the channel "plcprofessor".

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 contact mechanisms:

- Left: "Rotates a common contact between the normally closed and the normally open." (A rotating switch mechanism).
- Right: "Pulls a shorting bar between the normally closed and the normally open contacts." (A sliding bar mechanism).

 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:1. Object Oriented Programming	Semester & Section: IV SEM & A SECTION

AFTERNOON SESSION DETAILS

Image of session

The image displays three sequential screenshots of a Udemy course video player for 'The Python Mega Course: Build 10 Real World Applications'. The course is by Jose Portilla.

Top Screenshot: The video is at 3:25 / 14:00. The code in the IDE shows the loading of an image from 'galaxy.jpg' using OpenCV. A terminal window below the code shows a 'SyntaxError: unexpected EOF while parsing' error.

Middle Screenshot: The video is at 0:08 / 4:29. The code shows the use of 'glob' to find all image files in a directory and then iterates through them, displaying each image. The terminal shows the execution of the script.

Bottom Screenshot: The video is at 0:27 / 23min. The code shows a 3D visualization of a pyramid structure. The terminal shows the execution of the script.

On the right side of each screenshot, the 'Course content' sidebar is visible, listing various topics and their durations. The topics listed include:

- 199. Loading, Displaying, Resizing, and Writing Images (14min)
- 200. Batch Image Resizing (Practice) (1min)
- 201. Solution (1min)
- 202. Solution with Explanations (4min)
- 203. Face Detection (20min)
- 204. Capturing Video (20min)
- Section 26: Application 6: Build a Webcam Motion Detector (0 / 3 | 53min)
- Section 27: Interactive Data Visualization with Bokeh (0 / 17 | 58min)
- Section 28: Webscraping with Python Beautiful Soup (0 / 4 | 23min)

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