DAILY ASSESSMENT FORMAT

Date:	29-05-2020	Name:	Neha T
Course:	Logic design	USN:	4AL18EC035
Topic:	Application of Programmable logic controllers	Semester & Section:	4th sem A sec
Github Repository:	Neha-T		

FORENOON SESSION DETAILS
Image of session

What is a PLC? PLC Basics Pt1
1,657,119 views • Nov 5, 2012

Report – Report can be typed or handwritten for up to two pages.

➢ **Application of Programmable logic controllers**
- **Introduction -**
  - ★ **Programmable logic controllers are the major components in industrial control systems.**
  - ★ **They replaced something called electromagnetic relays**
- **Relays to bits (in memory)**
- **Illustration of an electronic circuit**
  - ★ **Relationships of power source, switches, the coil, contacts and the loads**
  - ★ **What happens when switch is closed**
  - ★ **What happens when switch is open**
- **Illustration of a Relay**
  - ★ **If the normally closed contact is closed then yes the coil is de-energized**
  - ★ **If the normally open contact is closed then yes the coil is energized**
- **Double-Break Contacts**
  - ★ **Thia design provides better protection against contact welding thata single break design**
  - ★ **It offers great DC load breaking capability and better isolation**
  - ★ **Double break contacts reduces the probability of welded contacts by more that 50% compared to a single-break design**
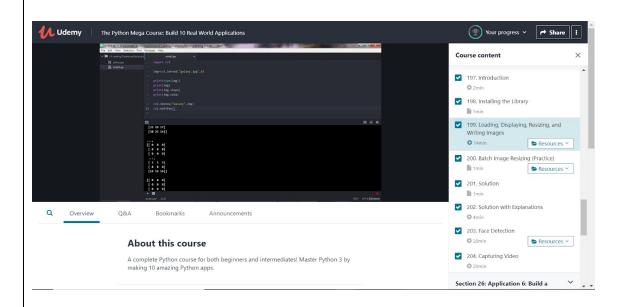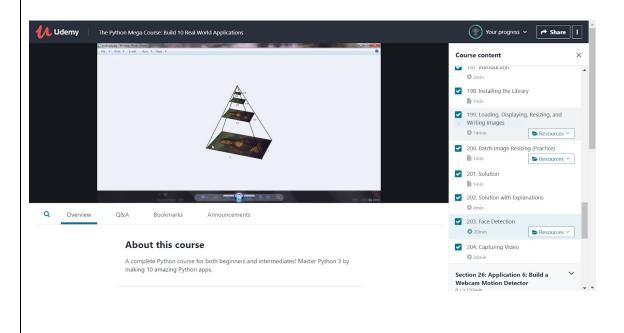
Date:	29-05-2020	Name:	Neha T
Course:	Python	USN:	4AL18EC035
Topic:	Python for Image and Video Processing with OpenCV	Semester & Section:	4th sem A sec

AFTERNOON SESSION DETAILS

Image of session

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➤ **Python for Image and Video Processing with OpenCV**
  - **Introduction -**
    - ★ **OpenCV is used for all sorts of image and video analysis, like facial recognition and detection, license plate reading, photo editing, advanced robotic vision, optical character recognition, and a whole lot more**
    - ★ **OpenCV's Python bindings is actually much easier than many people make it out to be initially**
    - ★ **You will need two main libraries, with an optional third: python-OpenCV, Numpy, and Matplotlib**
  - **Under this session**
    - ★ **Installing the library**
    - ★ **Loading, Displaying, Resizing and Writing Images**
    - ★ **Face detection**
    - ★ **Capturing video**

    were discussed
  - **Also practicing the Batch Image Resizing**