

Date: 22/5/2020

Name: Sneha.G

Course: Python

USN: 4AL18EC020

Topic: Python for Image & video processing

Sem, Sec: IV, A

GitHub: Sneha-G19

Report:

⇒ Python for Image & video processing with OpenCV.

- Introduction to image & video processing with OpenCV
- Installing the library
- Loading display, resizing & writing images
- Batch image resizing
- Face detector
- Capturing videos.
- Computer vision is the field that deals with acquiring & processing images
- When an image is passed to the computer
- It can do certain things such as it can tell us how many faces.
- Here we use python to load image & process them.

Date: 29/5/2020

Name: Sneha.G

Course: Logic Design

USN: 4AL18EC05

Topic: Applications of PLC

Sem &amp; Sec: IV, 'A'

Github Repository: Sneha-G19

Report:

⇒ Relays to bits: Here we are letting relays two bits basically making the translation from using relays to using bits in memory.

Adding a relay diagram into an actual application given an actual circuit. We normally refer to that portion of the circuit with the operator or the public interface. We could say that there are 3 public interface to the circuit.

Single Pole Single Throw Switch (SPST)

- It is controlled by the operator
- When switch is closed
- When switch is opened

Red Indicator:

- The battery powers the red light when the relay is de-energized.



### Green Indicator:

- It will illuminate when the relay is energized.

There are 2 power source for the circuit:

- Alternating current
- Direct current

### Working:

- When switch is closed the current will flow through the coil
- Magnetic field pulls the armature down opening the normally closed contact
- With the closed switch, green light is ON.
- Therefore, the normally open normally close contacts define the state of relay.
- For start - we have normally open push buttons
- For stop - we have normally closed push buttons
- Contact is open when the relay is de-energized
- Contact is closed when the relay is energized
- Start stop circuit
- Push buttons,
- Normally closed normally open circuit
- Relay coil.