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topic:- Application of PLC.

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* A PLC (programmable logic controller) is a ruggedized comput... used for Industrial Application Automa... These contains Automate... a specific process, Machine Function (or) Even entire Production unit.

* Working contains → I/O
→ communica.
→ HMI.

* Different types of PLC:- In Addition to PLC described above, there are variations Including PLC+HMI controllers.

* Different Application of Relays:-

* A CPU of the PLC executes two different s/ws:-
a) The operating s/w.
b) The user s/w.

* Ladder logic PLC programming.
Among several programming languages ladder logic diagram is the most basic and simplest form of programming the PLC.

* Before to program the PLC with this language, one should know the basic Information about it.

* In addition to above functional symbols, these are several functions like Times, Counters, PID etc.

* code for Display, Resizing, & Writing Images:-

=>
```
import cv2
img = cv2.imread("galaxy.jpg",0)
print(type(img))
print(img)
print(img.shape)
print(img.ndim)
resized_imge = cv2.resize(img.shape[1/2), (img.shape[0]/2))
cv2.imshow("Galaxy", resized_image)
cv2.imwrite("Galaxy_resized.jpg", resized_image)
cv2.waiting(0)
cv2.destroyAllwindows()
```

* I also want to write the code for face detections which is similar to the above code.

* Video capturing:- code

```
import cv2.time
a=0
While True:
a = a+1
check, frame = video.read()
print(check)
print(frame)
gray = cv2.cvtcolor(frame,cv2.COLOR_BGR2GRAY)
#time.sleep(3)
cv2.imshow("Capturing",gray)
key=cv2.waitkey(1)
if key==ord('q'):
break
print(a)
video.release()
cv2.destroyAllwindows(),
```