ASSIGNMENT 3

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PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT USING RASPBERRY PI

CODE:

|  |  |
| --- | --- |
|  | import RPi.GPI0 as GPI0  import time |
|  | GPI0.setmode(GPI0.BOARD) |
|  | GPI0.setup(7,GPI0.OUT) |
|  | GPI0.setup(11,GPI0.OUT) |
|  | GPIO.setup(13,GPI0.OUT) |
|  | GPI0.setup(15,GPI0.IN,pull\_up\_down\_=GPI0.UP) |
|  | def turn\_on(pin,seconds): |
|  | GPI0.output(pin.GPI0.HIGH) |
|  | time.sleep(seconds) |
|  | def turn\_off(pin,seconds): |
|  | GPI0.output(pin.GPI0.LOW) |
|  | time.sleep(seconds) |
|  | try: |
|  | while True: |
|  | button\_state=GPI0.input(15) |
|  | if button\_state==True: |
|  | turn\_on(13,2) |
|  | turn\_off(13,.1) |
|  | turn\_on(7,4) |
|  | turn\_off(7,.1) |
|  | turn\_on(11,1) |
|  | turn\_off(11,.1) |
|  | else: |
|  | if button\_state==False: |
|  | GPI0.output(7,GPI0.LOW) |
|  | GPI0.output(11,GPI0.LOW) |
|  | GPI0.output(13,GPI0.LOW) |
|  | time.sleep(.1) |
|  | except KeywordInterrupt: |
|  | GPI0.cleanup() |
|  | print("TRAFFIC LIGHT SEQUENCE DONE") |