ASSIGNMENT-3 V.S.B. Engineering College, Karur

Electronics And Communication Engineering

Title: SmartFarmer - IoT Enabled Smart Farming Application

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Problem: Write a python program for blinking LED and traffic

lights for RASPBERRY PI

CODE:

```
import RP1.GPIO as GP10
import time
GPIO. setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT) #Green LED
GPIO.setup(11, GPIO.OUT)#Yellow LED
GPIO.setup(13, GPIO.OUT) #Red LED
GPIO.setup(15, GP10.IN, pull_up_down=GPIO.PUD_UP)#Button
def turn_on(pin, seconds):
GPIO.output (pin,GPIO.HIGH)
time.sleep(seconds)
def turn_off (pin, seconds):
GPIO.output (pin, GPIO.LOW)
time.sleep(seconds)
try:
while True:
button_state=GPIO.input (15)
if button state== True:
turn on(13,2)
tum_off(13,.1)
turn on(7,4)
turn_off(7,.11)
turn_on(11,1)
turn_off(11,1)
else:
if button_state== False:
GPI0.output (7,GPIO.LOW)
```

GPIO.output(11,GPIO.LOW)

GP10.output (13,GPIO.LOW) time.sleep(.1) except KeyboardInterrupt: GPIO.cleanup() print("Traffic Light Sequence done")