SNS COLLEGE OF TECHNOLOGY

SmartFarmer – IoT Enabled Smart Farming Application

ASSIGNMENT 3:

Write python code for blinking LED and Traffic lights for Raspberry pi.

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CODE FOR BLINKING LED :

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
#assingn number for the GPIO using Board
#GPIO.setmode(GPIO.BOARD)
cnt = 0
MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds
RED_LED = 4
GPIO.setup(RED_LED, GPIO.OUT)
while True:
ifcnt == 0 :
GPIO.output(RED_LED, False)
cnt = 1
else:
GPIO.output(RED_LED, True)
```

```
cnt = 0
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

CODE FOR TRAFFIC LIGHTS:

```
from gpiozero import LED
red = LED(22)
red.blink()

from gpiozero import LED
red = LED(22)
amber = LED(27)
green = LED(17)

red.blink(1, 1)
amber.blink(2, 2)
green.blink(3, 3)

from gpiozero import LED
from time import sleep

red = LED(22)
amber = LED(27)
green = LED(17)

red.on()
```

```
sleep(1)
amber.on()
sleep(1)
green.on()
sleep(1)
red.on()
sleep(1)
amber.on()
sleep(1)
green.on()
sleep(1)
red.off()
sleep(1)
amber.off()
sleep(1)
green.off()

while True:
  red.on()
  sleep(1)
  amber.on()
  sleep(1)
  green.on()
   sleep(1)
   red.off()
   sleep(1)
```

```
amber.off()
sleep(1)
green.off()
```