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:

if cnt == 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()