ASSIGNMENT - 3

PYTHON PROGRAMMING

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| ASSIGNMENT DATE | 12 OCTOBER,2022 |
| Team ID | PNT2022TMID37457 |
| Project Name | Smartfarmer-IOT Enable Smart farming Application |

**QUESTION 1**

Write python code for Blinking led and traffic lights for Raspberry Pi

CODE :

BLINKING OF LED(RGB LED)

import Rpi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BOARD)  
GPIO.setup(8,GPIO.OUT)  
GPIO.setup(12,GPIO.OUT)  
GPIO.setup(10,GPIO.OUT)for

x in range(5):

GPIO.out(8,True)

Print("RED IS ON") sleep(2)

GPIO.output(8,False)

print("RED IS OFF")

sleep(2)

GPIO.output(12,True)

Print("Green IS ON")

sleep(2)

GIPO.output(12,False)

Print("GREEN IS OFF")  
sleep(2)

GPIO.output(10,True)

Print("BLUE IS ON")

sleep(2)

GPIO.output(10,False)

Print("BLUE IS OFF")

sleep(2)

TRAFFIC LIGHT

import Rpi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BOARD)  
GPIO.setup(7,GPIO.OUT)  
GPIO.setup(11,GPIO.OUT)  
GPIO.setup(13,GPIO.OUT)

while True:

GPIO.output(7,True)

print("RED IS ON") sleep(3)

GPIO.output(7,False)

Print("RED IS OFF")

GPIO.output(11,True)

Print("YELLOW IS OFF")

GPIO.output(13,True)

Print("GREEN IS ON")

sleep(3)

GPIO.output(13,False)

Print("GREEN IS OFF")

GPIO.cleanup()