ASSIGNMENT - 3

PYTHON PROGRAMMING

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| **ASSIGNMENT DATE** | 03 OCTOBER,2022 |
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| **MAXIMUM MARKS** | 2 marks |

# QUESTION 1

Write python code for Blinking led and traffic lights for Rasberry 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.output(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)

GPIO.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 ON") sleep(1) GPIO.output(11,False); print("YELLOW is OFF") GPIO.output(13,True) print("GREEN is ON")

sleep(3) GPIO.output(13,False) print("GREEN is OFF") GPIO.cleanup()