ASSINGMENT 3

PYTHON PROGRAMMING

Assignment Date	1 October 2022
Student Name	PRAVEEN BHARATHI K
Student Roll Number	CITC1904102
Maximum Marks	2 Marks

Question-1:

Write a python code blinking a LED for Raspberry pi

Solution:

Code:

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library from time import sleep # Import the sleep function from the time moduleGPIO.setwarnings(False) # Ignore warning for now GPIO.setmode(GPIO.BOARD) # Use physical pin numbering GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin andset initial value to low (off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) #
Turn onsleep(1) # Sleep for 1
second GPIO.output(8,
GPIO.LOW) # Turn offsleep(1) #
Sleep for 1 second

Question-2:

Write a python code Traffic lights for Raspberry pi

buzzer.off()

```
Solution:
Code:
from gpiozero import Button, TrafficLights, Buzzerfrom time import sleep
buzzer =
Buzzer(15)button =
Button(21)
lights = TrafficLights(25, 8, 7)
while True:
 button.wait_for_p
 ress()buzzer.on()
 light.green.o
 n() sleep(1)
 lights.amber.
 on()sleep(1)
 lights.red.on(
 ) sleep(1)
 lights.off()
```