**Assignment -3**

Python Programming

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| Assignment Date | 7 October 2022 |
| Student Name | s.vikram |
| Student Roll Number | 920819106068 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write a python code for led blinking in raspberry pi

SOLUTION:

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.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 and set initial value to

low (off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on

sleep(1) # Sleep for 1 second

GPIO.output(8, GPIO.LOW) # Turn off

sleep(1) # Sleep for 1 second

Question 2

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| **Solution:** |
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|  | Write a python code for traffic light in raspberry pi  SOLUTION:  from gpiozero import Button, TrafficLights, Buzzer  from time import sleep    buzzer = Buzzer(15)  button = Button(21)  lights = TrafficLights(25, 8, 7)    while True:  button.wait\_for\_press()  buzzer.on()  light.green.on()  sleep(1)  lights.amber.on()  sleep(1)  lights.red.on()  sleep(1)  lights.off()  buzzer.off() |
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| **Solution:** |
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