**Assignment -3**

Python Programming

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| Assignment Date | 03 October 2022 |
| Student Name | Eashwar Periyakaruppan.S |
| Student Roll Number | 411719106012 |
| Maximum Marks | 2 Marks |

**Question-1:**

Write python code for blinking led and traffic lights for raspberry pi.

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| **Solution:** |
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| **For blinking led** :  import RPi.GPIO as GPIO  import time    ledPin = 22    def setup():  GPIO.setmode(GPIO.BOARD)  GPIO.setup(ledPin, GPIO.OUT)  GPIO.output(ledPin, GPIO.LOW)    def loop():  while True:  print 'LED on'  GPIO.output(ledPin, GPIO.HIGH)  time.sleep(1.0)  print 'LED off'  GPIO.output(ledPin, GPIO.LOW)  time.sleep(1.0)  def endprogram():    GPIO.output(ledPin, GPIO.LOW)  GPIO.cleanup()    if \_\_name\_\_ == '\_\_main\_\_':  setup()  try:  loop()  except KeyboardInterrupt:  endprogram()    **For traffic light** :  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() |  |