

Assignment -3
Python Programming

Assignment Date	10 October 2022
Student Name	G.Akshaya
Student Roll Number	820419104005
Maximum Marks	2 Marks

Question-1:

Write Python code for blinking LED and Traffic lights for Raspberry Pi

Solution:

import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now

import time

ledPin = 22 # pin22

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()