**Assignment 3**

**LED Blinking: -**

import RPi.GPIO as GPIO

import time

ledPin=22 Question: -

Write a python code for Blinking LED and Traffic lights for Raspberry pi.

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()

**TRAFFIC LIGHT PYTHON CODE:-**

from giozero import LED

from time import sleep

red=LED(17)

yellow=LED(22)

green=LED(27)

While True:

red.on()

sleep(15)

red.off()

sleep(1)

yellow.on()

sleep(10)

yellow.off()

sleep(1)

green.on()

sleep(10)

green.off()

sleep(1)