Assignment Date	02 October 2022
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Maximum Marks	2 Marks

1. Raspberry Pi Program to Blink A LED.

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

2. Raspberry Pi Program for Traffic Light.

from gpiozero import Buzzer from gpiozero import Button from gpiozero import LED from time import sleep button = Button (21) buzzer = Buzzer (15) redled = LED(25)yellowled = LED(8) greenled = LED(7) while True: if button.is pressed: redled.on() buzzer.on() sleep(2) redled.off() buzzer.off() yellowled.on() sleep(2) yellowled.off() greenled.on() sleep(2) greenled.off()

break