Assignment -3

Assignment Date	19 September 2022
Student Name	Ms. PREETHI MAHALAKSHMI S
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi

Program: Blinking

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()#sleep

for 1 second

Traffic lights for Raspberry pi:

GPIO.setup(ledGreen, GPIO.OUT)

GPIO.setup(ledYellow, GPIO.OUT)

GPIO.setup(ledRed, GPIO.OUT) while

True:

input_state = GPIO.input(button) if

input_state == False: print('Button Pressed')

lightTraffic(ledGreen, ledYellow, ledRed, 1)

else:

GPIO.output(ledGreen, 0)

GPIO.output(ledYellow, 0)

GPIO.output(ledRed, 0) except

KeyboardInterrupt:

print "You've exited the program" finally:

GPIOcleanup()