NAME: MEKALA AASHIK BABU

REGISTER NUMBER: 111519106087

Write A Python Code For Blinking Led For Raspberry Pi.

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

Write A Python Code For Traffic Lights For Raspberry Pi.

import RPi.GPIO as GPIO

import time

try:

def lightTraffic(led1, led2, led3, delay):

GPIO.output(led1, 1)

time.sleep(delay)

GPIO.output(led1, 0)

GPIO.output(led2, 1)

time.sleep(delay)

GPIO.output(led2, 0)

```
GPIO.output(led3, 1)
  time.sleep(delay)
  GPIO.output(led3, 0)
 GPIO.setmode(GPIO.BCM)
 button = 19
 GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)
 ledGreen = 16
 ledYellow = 12
 ledRed = 23
 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:
 GPIO.cleanup()
```