## **ASSIGNMENT 3:**

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Question
Write python code for blinking LED and Traffic lights for Raspberry pi.
Traffic Light
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
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GPIO.setup(ledGreen,GPIO.OUT)

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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,
     bledYellow, 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()
Blinking LED
Import RPi.GPIO as GPIO # Import Raspberry PiGPIO 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 pi
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
```