ASSIGNMENT -3

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Maximum Marks	**2 Marks**

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

BLINKING LED:

#blink.py import time import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BCM)

GPIO.setup(4,GPIO.OUT)

GPIO.output(4,True) time.sleep(2)

GPIO.output(4,False)

OR

import RPi.GPIO as GPIO import

time

GPIO.semode(GPIO.BOARD)

GPIO.setup(11,GPIO.OUT)

GPIO.output(11,1) time.sleep(1)

GPIO.output(11,1) time.sleep(1)

```
GPIO.output(11,1) time.sleep(1)
GPIO.output(11,0) time.sleep(1)
GPIO.cleanup()
```

BLINKING LED AND TRAFFIC LIGHTS :

```
#!/usr/bin/python
Import time
Import RPi.GPIO as GPIO

try :
    GPIO.setmode(GPIO.BCM)
    GPIO.setwarnings(False)
    GPIO.setup(17,GPIO.OUT,initial=GPIO.HIGH) #Green LED
    GPIO.setup(27,GPIO.OUT, initial=GPIO.HIGH) #Red LED
    GPIO.setup(4,GPIO.OUT, initial=GPIO.HIGH) #Yellow LED

     #PUD_DOWN expecting a high voltage.
     GPIO.setup(22, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)

     GPIO.setup(14,GPIO.OUT, initial=GPIO.LOW) #pin of buzzer -reset to low

     While True :
          # GPIO.output(17,GPIO.HIGH)
# GPIO.output(27,GPIO.HIGH)

          If (GPIO.input (22)==True):
print ("button pressed")                print
(GPIO.input (22))

               while True :
```

```
                    GPIO.output (17,GPIO.LOW)  #green on
                     time.sleep(2)
                     GPIO.output(17,GPIO.HIGH) #green off

                    time.sleep(2)
                    GPIO .output (4,GPIO.LOW) #yellow on
                     time.sleep(2)
                     GPIO.output (4,GPIO.HIGH) #yellow off

except Exception as ex :          print
('Error occured',ex) finally :
        GPIO.cleanup ()
```