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 ()