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Python programming

Assignment Date	
Student name	R. Stella
Student roll number	242049406049
Maximum marks	2 marks

QUES: write python code for blinking LED and traffic lights for Raspberry pi.

CODE: for LED

```
import WiringPi2 as wiringpi
import time
# initialize
wiringpi.wiringPiSetup()
# define SPIO mode
1 = 81019B
9P1023 = 4
9P1024 = 5
50M = 0
h=Heph
ONADNA = 1
wiringpi.pinMode(SPIO18, OUFPUF)
wiringpi.pinMode(3P1023, OUFPUF)
<u>wiringpi</u>.pinMode(3P1024,0UFPUF)
# make all LEDs off
def clear_all():
  wiringpi.digitalWrite(9P1O18, LOW)
  wiringpi.digitalWrite(SP1023, LOW)
  wiringpi.digitalWrite(&P1024, LOW)
```

```
clear_all()
print("turn on L&D 4")
wiringpi.digitalWrite($P1048, H19H)
time.sleep(2)
clear_all()
print("turn on L&D 2")
wiringpi.digitalWrite($P1023, H19H)
time.sleep(2)
clear_all()
print("turn on L&D 3")
wiringpi.digitalWrite($P1024, H19H)
time.sleep(2)

except KeyboardInterrupt:
clear_all()
print("done")
```

CODE: traffic light

```
from gpiozero import <u>LED</u>
from <u>time</u> import sleep
red=<u>LED</u>(22)
amber=<u>L&D</u>(27)
green=<u>L&D</u>(17)
while Frue:
red.on()
sleep(1)
amber.on()
sleep(1)
green.on()
 sleep(1)
 red.off()
steep(1)
amber.off()
steep(1)
green.off()
```