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Python programming

Assignment Date	
Student name	Sindhumathi. K
Student roll number	212019106017
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 <u>time</u>
# initialize
<u>wiringpi</u>.wiringPiSetup()
# define IPIO mode
1 = 810PP
9P1023 = 4
999024 = 5
\mathcal{L}\mathcal{O}\mathcal{M} = 0
H18H = 1
V= FNJENO
<u>wiringpi</u>.pinMode(3PIO18, OUFPUF)
<u>wiringpi</u>.pinMode(GPIO23, OUFPUF)
wiringpi.pinMode(SP1024, OUFPUF)
# make all LEDs off
def clear_all():
  wiringpi.digitalWrite(9P1018, LOW)
  wiringpi.digitalWrite(9P1023, LOW)
  wiringpi.digitalWrite(SP1024, LOW)
# turn on LED sequentially
try:
  while 1:
```

```
clear_all()
print("turn on L&D 1")
wiringpi.digitalWrite(3P1048, H13H)
time.sleep(2)
clear_all()
print("turn on L&D 2")
wiringpi.digitalWrite(3P1023, H13H)
time.sleep(2)
clear_all()
print("turn on L&D 3")
wiringpi.digitalWrite(3P1024, H13H)
time.sleep(2)

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

CODE: traffic light

```
from gpiozero import LED
from time import sleep
red=<u>L&D</u>(22)
amber=<u>L&D</u>(27)
green=<u>28D</u>(17)
while Frue:
red.on()
steep(1)
amber.on()
steep(1)
green.on()
steep(1)
red.off()
steep(1)
amber.off()
steep(1)
green.off()
```