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Assignment -3

Python Code for Blinking led & Traffic lights

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Assignment Date	7 OCTOBER 2022
Student Name	ABIRAMI P
Student Roll Number	513419106001
Maximum Marks	

Question-1:

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

```
Solution
#BLINKING LED—ABIRAMI
  import time    import
RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setup(18, GPIO.OUT)
while True:
        GPIO.output(18,True)  # Turn on Led        time.sleep(1)
        GPIO.output(18,False) # Turn off Led        time.sleep(1)
#TRAFFIC LIGHTS import
RPi.GPIO    as    GPIO
import time import
signal
import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT) def
allLightsOff(signal, frame):
GPIO.output(9, False)
   GPIO.output(10, False)
   GPIO.output(11, False)
GPIO.cleanup()
   sys.exit(0) signal.signal(signal.SIGINT, allLightsOff)
while True:
   # Red
   GPIO.output(9, True)
time.sleep(3)
   # Red and amber
GPIO.output(10, True)
time.sleep(1)
```

```python
    # Green
    GPIO.output(9, False)
    GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)
    # Amber
    GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
    # Amber off (red comes on at top of loop)
    GPIO.output(10, False)
```