IBM ASSIGNMENT-3

Assignment Date	07 October 2022
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Student Roll Number	510119205003
Maximum Marks	2marks

ASSIGNMENT QUESTION:

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

CODE:

1.Blinking LED

import RPi.GPIO as GPIO
from time import sleep

GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:
 GPIO.output(8, GPIO.HIGH)
 sleep(1)
 GPIO.output(8,GPIO.LOW)
 sleep(1)

2. Traffic lights

```
import RPi.GPIO as GPIO
import time import
signal import sys
#Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
#Turn off all lights when user ends demo 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)
#Loop forever while
True:
  #Red GPIO.output(9,
  True) time.sleep(3)
  #Red and yellow
  GPIO.output(10,
  True) time.sleep(1)
  #Yellow
  GPIO.output(11, False)
  GPIO.output(10, True)
  time.sleep(2)
  #Yellow off(red comes on at top of loop)
  GPIO.output(10, False)
  #Green
  GPIO.output(9, False)
  GPIO.output(10, False)
  GPIO.output(11, True)
  time.sleep(5)
```