IBM ASSIGNMENT -3

Assignment Date	06 October 2022
Student Name	P.Kavitha
Student roll no	510119104012
Maximum marks	2 marks

QUESTIONS:

Write a python code for blink LED and traffic signal in Rasberry pi

CODE FOR TRAFFIC SIGNAL:

```
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
```

CODE FOR BLINKING LED:

```
import RPi.GPIO as GPIO                 #Import raspberry Pi GPIO library
from time import sleep                  #Import the sleep function from the time module
GPIO.setwarnings(False)                 #Ignore warning for now
GPIO.setmode(GPIO.BOARD)                #use physical pin numbering
GPIO.setup(8, GPIO.OUT , initial=GPIO.LOW)  #Set pin 8 to be an output pin and set initial value to low (off)
while True:                                     #Run forever
GPIO.output(8, GPIO.HIGH) #Turn on
sleep(1)                                        #Sleep for 1 second
GPIO.output(8,GPIO.LOW)                 #Turn off
sleep(1
```