

Assignment -3

Assignment Date	19 September 2022
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Student Roll Number	111519106018
Maximum Marks	2 Marks

Question 3:

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

CODE:

RASPBERRY PI LED BLINK:

```
import RPi.GPIO as GPIO import time
```

```
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setwarnings(False)
```

```
GPIO.setup(18,GPIO.OUT) print
```

```
("LED on")
```

```
GPIO.output(18,GPIO.HIGH)
```

```
time.sleep(1) print ("LED
```

```
off")
```

```
GPIO.output(18,GPIO.LOW)
```

CODE:

RASPBERRY PI FOR TRAFFIC LIGHT:

```
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:    GPIO.output(9, True)
time.sleep(3)
```

```
GPIO.output(10, True)
time.sleep(1)    GPIO.output(9,
False)
```

```
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)    GPIO.output(11,
False)    GPIO.output(10, True)
time.sleep(2)    GPIO.output(10,
False)
```