

Assignment -3
Python Code for Blinking led & Traffic lights

Assignment Date	7 OCTOBER 2022
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Maximum Marks	

Question-1:

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

Solution

#BLINKING LED—UKKESH

```
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)

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)
```