## **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
 import time
 import RPi.GPIO as GPIO
 GPIO.setmode(GPIO.BCM)
 GPIO.setup(18, GPIO.OUT)
 while True:
       GPIO.output(18,True) # Turn
       on Ledtime.sleep(1)
       GPIO.output(18,False) # Turn
       off Ledtime.sleep(1)
#TRAFFIC LIGHTS
import RPi.GPIO as
GPIOimport 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.slee
p(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)
```