## 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.

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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 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)