## ASSIGNMENT 3

## PYTHON CODE FOR BLINKING LED & TRAFFIC LIGHTS

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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 LED
      TIME.SLEEP(1)
#TRAFFIC LIGHTS
IMPORT RPI.GPIO
AS GPIOIMPORT
TIME
IMPORT
SIGNAL
IMPORT
SYS
GPIO.SETMODE(GPI
O.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(111, TRUE)

TIME.SLE
EP(5) #
AMBER
GPIO.OUTPUT(1
1, FALSE)
GPIO.OUTPUT(1
0, TRUE)
TIME.SLEEP(2)
# AMBER OFF (RED COMES ON
AT TOP OF LOOP)
GPIO.OUTPUT(10, FALSE)