# Assignment -3
## Python Programming

| Assignment Date | 30 September 2022 |
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| Student Name | AFREEN MINU FATHIMA K |
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| Maximum Marks | 2 Marks |

## Question-1:

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

**SOLUTION:**

```
from gpiozero import LED

from time import sleep


red = LED(17)    #initialize GPIO pin 17 to the externally connected red LED

yellow = LED(27) #initialize GPIO pin 27 to the externally connected yellow LED

green = LED(22)  #initialize GPIO pin 22 to the externally connected green LED


while True:

    green.on()    #Turn on the green light for 3 seconds and off it

    sleep(3)

    green.off()

    yellow.on(0.5) #The yellow light is on for half a second and off then

    sleep(1)

    yellow.off()

    red.on()      #Turn on the red light for 3 seconds and off it

    sleep(3)

    red.off()     #The loop runs continuously
```