

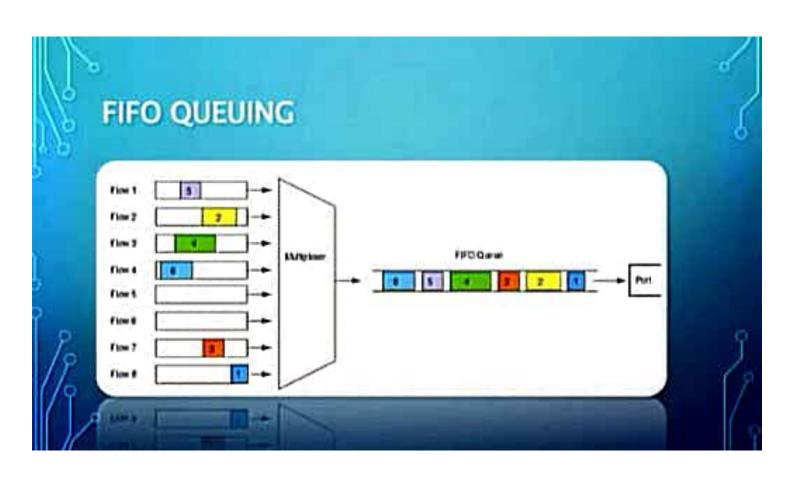


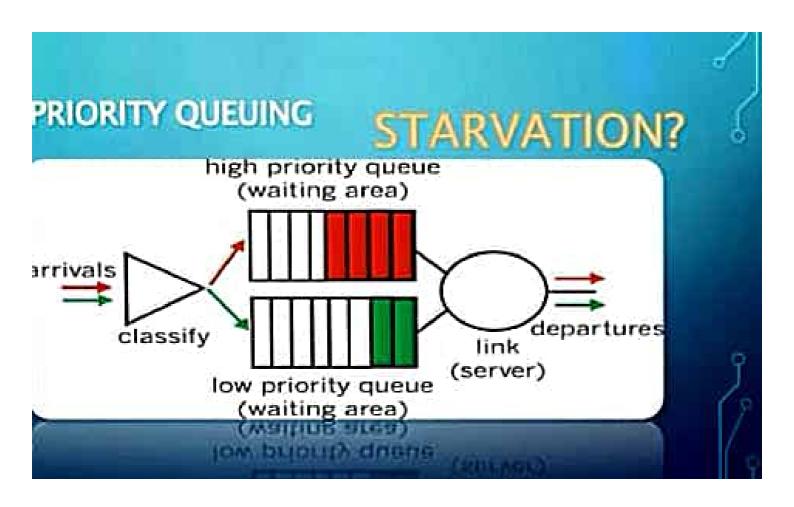
- The traffic is basically a flow of packets or data in the network
- The regulation of traffic into the point of networks to improve the service that network provides
- The traffic management aims of having fair or equitable allocation of network resources for adaptive applications
- For performance guarantee of non adaptive applications, the traffic management can be achieved by using certain algorithms
 - Leaky Bucket
 - Token Algorithms

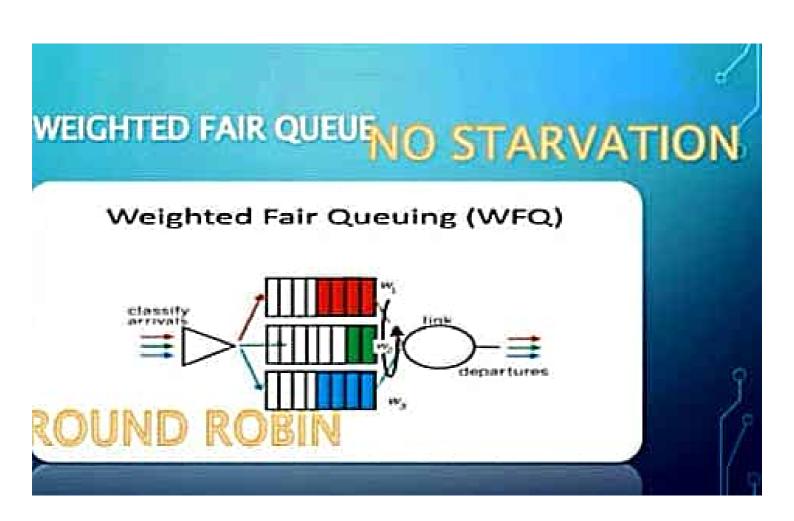




- Packet Loss: happens when network links become congested and routers and switches start dropping packets. Eg -valoe/video call drop
- Jitter: Variation of delays in the call as a result of network congestion, time drifting and route changes. Eg- Quality of Video Call
- Latency: The time taken by packet to travel from source to destination. Eg- high latency leads to echo and overlapping voice/video call
- Bandwidth: The capacity of network to transmit the maximum amount of data from source to destination in a given amount of time. Eg- Setting Priorities on increased requirements
- Mean Opinion Score(MOS): The metric to rate voice quality ranging from 0 to 5.
 Rating 5 being the best one.







```
import time
from machine import Pin
led_jaune=Pin(23,Pin.OUT) #Sets ESP32 board pin D23 to output mode
led_rouge=Pin(22,Pin.OUT) # Sets ESP32 board pin D22 to output mode
led_verte=Pin(21,Pin.OUT) # Sets ESP32 board pin D21 to output mode
while True:
led_jaune.value(1) #Turn on yellow LED
led_rouge.value(0)
led verte.value(0)
time.sleep(1) # wait 1s
led jaune.value(0)
led_rouge.value(1) #Turn on red LED
led_verte.value(0)
 time.sleep(3)
led jaune.value(0)
led_rouge.value(0)
led_verte.value(1) #Turn on green LED
time.sleep(3)
```