

Practical 1

AIM: Write a program to simulate Fixed Time Division Multiplexing. Take 12 stations. Every station has time slice of 417 microseconds. Delay should be 10ms. Every time the station gets turn, it shows message.

PROGRAM:

```
import time

station =12
slice = 417/1000
delay = 10/1000
t = 0

for i in range(station):

    print(f"Time = {t}ms-{t+slice*1000}ms Station No.-{i+1} Occupying channel")

    ime.sleep(slice)

    t = t+slice*1000

    if i!=11:

        print(f"Delay between station No. {i+1} and {i+2} of {delay*1000}ms")

        time.sleep(delay)

    t = t + 10
```

OUTPUT:

```
C:\Users\parth\PycharmProjects\MCWC>python prac1.py
Time = 0ms-417.0ms Station No.-1 Occupying channel
Delay between station No. 1 and 2 of 10.0ms
Time = 427.0ms-844.0ms Station No.-2 Occupying channel
Delay between station No. 2 and 3 of 10.0ms
Time = 854.0ms-1271.0ms Station No.-3 Occupying channel
Delay between station No. 3 and 4 of 10.0ms
Time = 1281.0ms-1698.0ms Station No.-4 Occupying channel
Delay between station No. 4 and 5 of 10.0ms
Time = 1708.0ms-2125.0ms Station No.-5 Occupying channel
Delay between station No. 5 and 6 of 10.0ms
Time = 2135.0ms-2552.0ms Station No.-6 Occupying channel
Delay between station No. 6 and 7 of 10.0ms
Time = 2562.0ms-2979.0ms Station No.-7 Occupying channel
Delay between station No. 7 and 8 of 10.0ms
Time = 2989.0ms-3406.0ms Station No.-8 Occupying channel
Delay between station No. 8 and 9 of 10.0ms
Time = 3416.0ms-3833.0ms Station No.-9 Occupying channel
Delay between station No. 9 and 10 of 10.0ms
Time = 3843.0ms-4260.0ms Station No.-10 Occupying channel
Delay between station No. 10 and 11 of 10.0ms
Time = 4270.0ms-4687.0ms Station No.-11 Occupying channel
Delay between station No. 11 and 12 of 10.0ms
Time = 4697.0ms-5114.0ms Station No.-12 Occupying channel

C:\Users\parth\PycharmProjects\MCWC>
```