تمرین سری چهارم سیستم عامل

سوال چهار

در این سوال انجام همزمان تعدادی task را که رو thread های مختلف هستند (10 thread موجود)
با منابع محدود (resource 5 موجود) شبیه سازی میکنیم و با استفاده از دستور موجود در تصاویر زیر
آن را اجرا میکنیم .

```
qazal@Qazal:~/Desktop/OS/OS-Assignments/OS-HW4/Q4$ make Q_Four
gcc -pthread Q4.c -o Q4
./Q4
Thread 2 is performing work with resource 2
Thread 1 is performing work with resource 1
Thread 4 is performing work with resource 4
Thread 3 is performing work with resource 3
Thread 5 is performing work with resource 5
Thread 7 is performing work with resource 1
Thread 6 is performing work with resource 2
Thread 8 is performing work with resource 5
Thread 9 is performing work with resource 3
Thread 10 is performing work with resource 4
```

```
qazal@Qazal:~/Desktop/OS/OS-Assignments/OS-HW4/Q4$ make Q_Four
gcc -pthread Q4.c -o Q4
./Q4
Thread 1 is performing work with resource 2
Thread 6 is performing work with resource 1
Thread 2 is performing work with resource 3
Thread 5 is performing work with resource 5
Thread 8 is performing work with resource 4
Thread 4 is performing work with resource 4
Thread 3 is performing work with resource 2
Thread 7 is performing work with resource 4
Thread 10 is performing work with resource 2
Thread 9 is performing work with resource 4
```