Bankers Algorithm Assignment

Name: محمد مدحت محمد ابراهيم

Code: 1701287

Sec: 4

Safty algorithm example:

```
Enter he number of processes is: 5
Enter he number of resource is: 4

Enter the (Allocation) matrix (R0 R1 R2 .....)
==================================================
P0: 0 0 1 2
P1: 1 0 0 0
P2: 1 3 5 4
P3: 0 6 3 2
P4: 0 0 1 4

Enter the (Max) matrix (R0 R1 R2 .....)
=========================================
P0: 0 0 1 2
P1: 1 7 5 0
P2: 2 3 5 6
P3: 0 6 5 2
P4: 0 6 5 6

Enter the (Available) matrix (R0 R1 R2 .....): 1 5 2 0

The (Need) matrix is
=====================
        R0        R1        R2        R3
P0      0         0         0         0
P1      0         7         5         0
P2      1         0         0         2
P3      0         0         2         0
P4      0         6         4         2

Choose the algorithm
====================
For Safty Algorithm press 1
For Resource Request Algorithm press 2
Enter your choice: 1
Yes , Safe state <P0,P2,P3,P4,P1>
```

Resource request algorithm example:

```
What is next?
===================
For new query press 1
For new input press 2
Enter your choice: 1

Choose the algorithm
===================
For Safty Algorithm press 1
For Resource Request Algorithm press 2
Enter your choice: 2
Enter the number of the process that made the request: 1
Enter the resource request (R0 R1 R2 .....): 0 4 2 0
Yes request can be granted with safe state, Safe state <P1req,P0,P2,P3,P4,P1>
```

Note:

You do not need to close the program for new input or inquiry.

Just follow the instructions.

Repository link:

https://github.com/MedoOnlyOne/Bankers_Algorithm