Lab 8 - (Paging Simulator)

README

Best to just plug into PyCharm and run for ease of use, but can be run as a general script.

Simple Menu

```
C:\Users\GregV\AppData\Local\Programs\Python\Python38-32\python.exe "C:\Users\GregV\PycharmProjects\Paging Simulator\main.py"
Initializing Memory File!
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
```

[0] Load Program / [2] Dump

```
C:\Users\GregV\AppData\Local\Programs\Python\Python38-32\python.exe "C:/Users/GregV/PycharmProjects/Paging S
Initializing Memory File!
What would you like to do?
[0] Load Program
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Number of Pages in exe?500
Saving Memory File!
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Total Memory: 524288
Frame #: 0
512 bytes
Status: Occupied
Program Holding Frame: Program 1
Frame #: 1
512 bytes
Program Holding Frame: Program 1
Frame #: 2
512 bytes
Program Holding Frame: Program 1
```

[1] Initialize / [2] Dump

```
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Initializing Memory File!
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Total Memory: 524288
Frame Sizes: 512
Number of Frames: 1024
```

[3] Reset / [2] Dump

```
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Initializing Memory File!
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Total Memory: 524288
Frame Sizes: 512
Number of Frames: 1024
```

[4] Free Program / [0] Load

```
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Number of Pages in exe?52
Saving Memory File!
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Enter program to free: Program 1
```

[5] List Program / [0] Load

```
Number of Pages in exe?500
Saving Memory File!
What would you like to do?
[0] Load Program
[1] Initialize
[2] Dump
[3] Reset
[4] Free Program
[5] List Program
[6] Exit
Total Memory: 524288
Frame Sizes: 512
Number of Frames: 1024
Frame #: 0
512 bytes
Status: Occupied
Program Holding Frame: Program 1
None
Frame #: 1
512 bytes
Status: Occupied
Program Holding Frame: Program 1
None
Frame #: 2
512 bytes
Status: Occupied
Program Holding Frame: Program 1
None
```

[6] Exit

```
What would you like to do?

[0] Load Program

[1] Initialize

[2] Dump

[3] Reset

[4] Free Program

[5] List Program

[6] Exit

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Saving Memory File!

Process finished with exit code 0
```

Memory.txt

```
524288
512
1024
-102
{'Program 1': <Classes.Program object at 0x032CE1A8>, 'Program 2
0 512 False Program 2
1 512 False Program 2
2 512 False Program 2
3 512 False Program 2
4 512 False Program 2
5 512 False Program 2
6 512 False Program 2
7 512 False Program 2
8 512 False Program 2
9 512 False Program 2
10 512 False Program 2
11 512 False Program 2
12 512 False Program 2
13 512 False Program 2
14 512 False Program 2
15 512 False Program 2
16 512 False Program 2
17 512 False Program 2
18 512 False Program 2
19 512 False Program 2
20 512 False Program 2
21 512 False Program 2
22 512 False Program 2
23 512 False Program 2
24 512 False Program 2
25 512 False Program 2
26 512 False Program 2
27 512 False Program 2
28 512 False Program 2
29 512 False Program 2
30 512 False Program 2
31 512 False Program 2
32 512 False Program 2
33 512 False Program 2
```