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CMPS431
Assignment 1

Description

This program resembles a very simple batch system. It does not use its own compiler, assembler, linker, or loader. Instead, it uses the c++ system to process tasks. How it works is, user runs the BatchMonitor.cpp file. The user is then presented a list of options which allows them to use commands in order to process the users jobs. The jobs are programs the user created and this batch system allows the user to efficiently run these programs by taking advantage of prebuilt code. This prebuilt code allows the user to compile, assemble, link, and load their jobs.

Code Listing

Assuming source code is what you're referring.
https://github.com/cmd-ctrl-q/CMPS431-Batch-1

Screenshots

```
0: Quit
1. List jobs in directory
2. Run 1 job
3. Run all jobs
4. Set jobs directory
5. Help

Enter selection: 1
dots.cpp        factorial.cpp   hashtag.cpp     summation.cpp
```

```
0: Quit
1. List jobs in directory
2. Run 1 job
3. Run all jobs
4. Set jobs directory
5. Help

Enter selection: 2
Enter job name: dots
g++ jobs/dots.cpp
.................................................
```

```
0: Quit
1. List jobs in directory
2. Run 1 job
3. Run all jobs
4. Set jobs directory
5. Help

Enter selection: 3

hashtag.cpp
####################################################################################################

factorial.cpp
10 * 9 = 90
90 * 8 = 720
720 * 7 = 5040
5040 * 6 = 30240
30240 * 5 = 151200
151200 * 4 = 604800
604800 * 3 = 1814400
1814400 * 2 = 3628800
3628800 * 1 = 3628800
10! = 3628800

summation.cpp
10 + 9 = 19
19 + 8 = 27
27 + 7 = 34
34 + 6 = 40
40 + 5 = 45
45 + 4 = 49
49 + 3 = 52
52 + 2 = 54
54 + 1 = 55
∑10 = 55

dots.cpp
..................................................


0: Quit
1. List jobs in directory
2. Run 1 job
3. Run all jobs
4. Set jobs directory
5. Help

Enter selection: 5

Usage:
The commands are:
<option>         <description>
        0        shutdown
        1        list jobs in directory
        2        run a single job
                         input: <filename>(.cpp)
        3        run all jobs in directory (change directory with option 4)
        4        set the job directory (default: /jobs/)
        5        help
```