

User documentation

Program 1

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Getting started

Required Materials:

1. Ensure you have a working laptop.
2. Ensure you have python3 and libraries numpy, pandas, and math installed. If you do not have these go to python's webpage at <https://www.python.org/downloads/> and click download. To get the libraries make sure you have a python pip installer installed. If you already have them installed, skip to the next section. If this is not installed, go to the pip downloader website and follow the instructions <https://pip.pypa.io/en/stable/installation/>. You can now download each of the libraries using the command:

```
python3 pip <name of library>
```

Make sure you install all the libraries.

3. Download the raw files. Make sure they are in the same folder you downloaded your program. If you know how to get file paths this will not matter.

Running the Script

To run a selected program, download the one you would like to use. Make sure you know the directory it is in. For mac users, this can be found by clicking on the file opening the prompt box, then holding down options. You will then see a new option that says "copy file path name".

Select this option. For windows users, you can see the file path by clicking on it and selecting copy the file path.

Now open up the command line. This is done in mac by searching for the terminal application and opening it. Windows's users will search for the command prompt. Once here, users change your directory to the directory the program is in by typing:

```
cd <path to directory>
```

This will take you to the directory where the program is stored. You can run the program by issuing the command:

```
python3 <name of program>
```

This will run the program in your terminal. It will ask you to provide the file names specified in the print outs. Put the file path, or name of the file if you are in the same directory. Make sure you input exactly as it asks for. This is because it will be out of scope for the program to read smaller files or files of different types other than long and unsigned char.

The output of the program will be placed in the same directory the program is in. To view results click on these newly created files, or paste their file path into your browser to view them there.

Support

You may contact me at kholsapp@ucsc.edu for support.