



Phone Log Reader – Coding Exercise

Phone Log Reader Overview

To view the project, open the “Phone Log” folder located on your desktop. This folder contains three files:

 RuthBennett.contacts – a file containing a list of Ruth Bennett’s contacts along with their corresponding numbers

 PhoneLog.log – a file containing raw data pertaining to Ruth Bennett’s call history

 PhoneLogReader_BROKEN.py – a python script that, when fixed, summarises Ruth Bennett’s call history and presents the information in a more readable fashion

Viewing the Phone Log

To view the phone log, right-click the *PhoneLog.log* file and select *Edit with Notepad++*. Upon opening, you’ll notice that this file is extremely large, and sifting through its contents by hand would be an extremely difficult task indeed.

Note: Do not alter this file in any way, otherwise you will most likely introduce errors when analysing and debugging – it is advisable to immediately close the file after inspection.

Fixing the Phone Log Reader

In order to use the Phone Log Reader, you must first fix it. To open the code, right click the *PhoneLogReader_BROKEN.py* file and click *Edit with Notepad++*.

Note: It is advisable that you make a copy of the *PhoneLogReader_BROKEN.py* file incase you introduce some hard to correct errors whilst debugging.

There are **4** mistakes in the code in total. There are two errors that will cause the tool to crash; a compile time error and a runtime error. The code also contains two errors that will not cause the program to crash, but they are logical errors that will hinder your ability to analyse the data.

In Notepad++, if you wish to attempt to run your code, press F5.

Hints

Below are some hints for fixing the Phone Log Reader.

Error 1

This is a compile time error. The debugger should give you some useful information.

Error 2

This is a runtime error. Double-check a filename and extension contained within the code.

Error 3

When viewing the “Readable Phone Log”, why is the date printed twice? Why is the time not being printed?

Error 4

In the “Readable Phone Log”, is the order of the months correct?