As the use of the internet has drastically become more prevalent, so has the attempt to monitor the traffic across/over the wire/air. The surveillance spoken of has been conducted under both good and bad intentions. With the advent of e-commerce and especially e-money, anonymity is increasingly becoming a concern. At the moment, one of the most prominent ways to mask one’s digital identity is using secure multi-party computations.

Among several sources I have gathered, one class *Advanced Cryptography - Secure Multiparty Computation* has delivered several new sources that will provide a more directed study in the subject matter. This includes a book, a proof of a protocol for two-party computation, and many recent papers on secure computation. In addition to this bank of related works, I have found a few more papers on SMPC, all written within the past decade. Moreover, I have uncovered real-life examples of such SMPC algorithms implemented.

After the researching approaches, I plan to sort through the Python and C++ code of previously mentioned real-life applications. These present practical methodologies in tackling the possibly never-ending problem of online anonymity. Upon completion of the project, I plan to gain experience in actual secure protocols, Python, and optimally adapting upon the discovered implementations.