Sr No	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
1	Go v1.12	Free	NA	NA	`https://golang.org/`	System with 4GB RAM	macOS, Linux, Windows, FreeBSD
2	Visual Studio Code v1.35	Free	NA	NA	`https://code.visualstudio.com/`	System with 4GB RAM	macOS, Linux, Windows
3	OpenSSL v1.1.1b	Free	NA	NA	`https://www.openssl.org/`	System with 4GB RAM	macOS, Linux, Windows
4	Protobuf v3.8.0	Free	NA	NA	`https://github.com/google/protobuf`	System with 4GB RAM	macOS, Linux, Windows
5	Build Essentials (GCC v8.3.0)	Free	NA	NA	-	System with 4GB RAM	macOS, Linux, Windows

The detailed installation steps are as follows:

1. Go v1.12:
    1. Download the latest version of Go from `https://golang.org/dl/`.
    2. Extract it with `tar -C /usr/local -xzf go$VERSION.$OS-$ARCH.tar.gz`.
    3. Add it to `PATH` with `export PATH=$PATH:/usr/local/go/bin`.
    4. Set the `GOPATH` variable with `export GOPATH=~/go`.
    5. Add `GOPATH` binaries to the PATH with `export PATH=$PATH:$GOPATH/bin`.
    6. Ensure that Go is installed with go version.
    7. Add the export statements to your `.bashrc` file.
2. Visual Studio Code
    1. Download the latest installer from `https://code.visualstudio.com/Download`.
    2. Run the installer.

3. OpenSSL
   1. It should be installed in your Linux distribution.
   2. If not, run `sudo apt install openssl`.
4. Protobuf
   1. Download the latest release from `https://github.com/protocolbuffers/protobuf/releases`.
   2. Unzip this file.
   3. Update the environment variable `PATH` to include the path to the `protoc` binary file.
   4. Install the Go `GRPC` package with the command `go get -u google.golang.org/grpc`.
5. Build essentials
   1. Run `sudo apt install build-essential`.