**Purpose:**

The task for this challenge is to read the Linux CPU information from /proc/cpuinfo and display it using QML. The solution must run on a standard Linux system, preferably Ubuntu, and should be written using Qt C++ to read the system information and Qt Quick (not QWidget) to display the data. Qt version should be at least Qt 5.4.

**Solution Approach:**

I have created an application using integrated approach with interaction between C++ code and QML code. I have used a list View to display the "roc/cpuinfo" file's content by adding custom formatting to each line of the file and displaying as a part of the list view. ListView is defined in Main.qml file. The model used here is QStringList. It is supplied by the C++ code by

* reading the file
* formatting the content
* populating the string list
* set this list as a model for the listview using 'listView->setProperty()'

**Block Design**

listView->setProperty("model",QVariant::fromValue(listCPUInfo))

View

engine.load(QUrl("qrc:///main.qml"))

Model

QML Code

C++ Code

**Loads the QML**

**Sets the model**

**How to run the application:**

* Download the ‘[QMLCPUInfoDisplay](https://github.com/FaniBhushan/QMLMiniProject/tree/master/Desktop/QT/Projects/QMLCPUInfoDisplay)/build-QMLCPUInfoDisplay-Desktop\_Qt\_5\_9\_0\_GCC\_64bit-Debug/[QMLCPUInfoDisplay](https://github.com/FaniBhushan/QMLMiniProject/blob/master/Desktop/QT/Projects/QMLCPUInfoDisplay/build-QMLCPUInfoDisplay-Desktop_Qt_5_9_0_GCC_64bit-Debug/QMLCPUInfoDisplay)’ file from the repository and save it to a folder
* Run the executable ‘[QMLCPUInfoDisplay](https://github.com/FaniBhushan/QMLMiniProject/blob/master/Desktop/QT/Projects/QMLCPUInfoDisplay/build-QMLCPUInfoDisplay-Desktop_Qt_5_9_0_GCC_64bit-Debug/QMLCPUInfoDisplay)’ from either command prompt from the saved location or by double clicking it.

**Note:**

Please consider that, I have been learning QT from Online sources for last few weeks. But prior to getting the assignment, I had only learnt QWidgets and practiced by creating desktop application using them.

I have completed the assignment based on the limited knowledge of QtQuick, whatever I could learn in 2 days. I have designed the solution myself.

But to get the coding idea, have taken some help from open source due to lack of QML practice.

But I have got some fair idea about QML/C++ application and am confident about learning it in 2-3 months till a decent level if I can get some systematic learning source.