Starting point for the assignment

Please carry out the following steps as a starting point for the assignment.

- 1. Create a new Qt Widgets application
- 2. Copy the header and code files from *CubeExample* excluding the main.cpp file, into the project directory.
- 3. Use 'Add Existing Files' to add these files to the Qt Widgets application.
- 4. Add the glew library and set the project folder as normal.
- 5. Copy the shader directory into the project directory as well as the glew32.dll file (from the bin directory of glew)
- 6. Go to the file mainwindow.h and add the following method in the public section

```
void setView(MainView* view);
```

Add the following data member in the private section

```
MainView* view;
```

#include the mainview header at the top

```
#include "mainview.h"
```

7. Go to Mainwindow.cpp and implement the method as follows;

```
void MainWindow::setView(MainView* view)
{
    this->view = view;
}
```

8. Replace the implementation of main.cpp:

```
#include "mainwindow.h"
#include <QApplication>
int main(int argc, char *argv[])
{
    QApplication a(argc, argv);
    MainWindow w;
    w.show();
    return a.exec();
}
```

with

```
int main(int argc, char *argv[])
       QApplication app(argc, argv);
       MainWindow *window = new MainWindow();
       // The main window
       QWidget* win = new QWidget(window);
       // The GL view
       QGLFormat format;
       format.setVersion(4,0);
       format.setProfile(QGLFormat::CoreProfile);
       MainView *glView = new MainView(format, window);
       window->setView(glView);
       QVBoxLayout *mainLayout = new QVBoxLayout(win);
       mainLayout->addWidget(glView);
       window->setCentralWidget(win);
       window->show();
       return app.exec();
}
```

9. Build and run. You should find you get the image of the cube on the screen.

You are now at a starting point for carrying out the assignment. You have the mainwindow.ui form with which you can create the menu items/dialogs etc. and provide the appropriate response functions in the mainwindow.cpp file.