How to write data to a file in Qt

This article shows how to use QFile to write data to a file.

Overview

This application does not use a QCoreApplication object, as `QFile` does not need the event loop – our example is finished after sequentially working through the source code in `main()`. First, the example creates a file then open the file in write mode. If the file was opened correctly, a QTextStream is constructed using the `QFile` object (based on QIODevice). Then we write the data to the file and finally close the file.

Source File

```
#include <QFile>
#include <QCoreApplication>
#include <QTextStream>

int main(int argc, char *argv[])
{
    //QCoreApplication app(argc, argv);  //(we don't use these)

    QFile file("c://out.txt");
    file.open(QIODevice::WriteOnly | QIODevice::Text);
    QTextStream out(&file);
    out << "This file is generated by Qt\n";

    // optional, as QFile destructor will already do it:
    file.close();

    //this would normally start the event loop, but is not needed for this
    //minimal example:
    //return app.exec();

    return 0;
}
```

- Above code will generate the file **out.txt** into **C:**.
- It is also important to notice that the default location for files on Symbian platform is "/private/<SID>". The driver folder is located depends on the driver the application is installed. So, a file named 'out.txt' will be located in folder '/private/<SID>/out.txt'

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    //QCoreApplication app(argc, argv);  //(we don't use these)

    QFile file("out.txt");
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    QTextStream out(&file);
    out << "This file is generated by Qt\n";

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    //return app.exec();

    return 0;
}
```

File Read/write in meego-harmattan

For reading/writing files on meego-harmattan, HOME (/home/user) directory should basically be used:

```
//you might want to keep files somewhere in a folder named after your application, so create a directory in home path(let say :/loca
// using QDir::mkdir & then use the code below or if not then simply keep files in HOME path

QString testbuf;
QString filename ="/home/user/local/share/YourAppName/somefolder/somefile.txt"
QFile file(filename);
if ( file.open(QIODevice::WriteOnly | QIODevice::Text))
        {
            QTextStream stream( &file );
            stream << testbuf << endl;
            file.close();
        }

//Similarly Read operation can also be done.
```


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