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<b>Category</b>	Qt for S60	<b>Subcategory</b>	UI

**Keywords (APIs, classes, methods, functions):** QCryptographicHash, QByteArray

## Introduction

The QCryptographicHash class provides a way to generate cryptographic hashes from binary or text data.

For more information, see Wikipedia on [http://en.wikipedia.org/wiki/Cryptographic\\_hash\\_function](http://en.wikipedia.org/wiki/Cryptographic_hash_function)

## Preconditions

- Download and Install latest version [Qt for Symbian - Installation packages](#) which has links on how to install the latest version

## Some Related Function

- Adds the data to the cryptographic hash:

```
QByteArray string = "Nokia";
QCryptographicHash hasher(QCryptographicHash::Sha1);
hasher.addData(string);
```

- Returns the final hash value.

```
QByteArray string1=hasher.result();
```

## Source Code

## Main.cpp

```
#include <QtGui/QApplication>
#include <QWidget>
#include <QHBoxLayout>
#include <QCryptographicHash>
#include <QString>
#include <QByteArray>
#include <QLabel>

int main(int argc, char *argv[])
{
    QApplication a(argc, argv);
    QWidget *win=new QWidget();
    QHBoxLayout *lay=new QHBoxLayout();
    QLabel *lbl=new QLabel();
    QLabel *lbl1=new QLabel("Encrypted Text:");
    lbl1->setBuddy(lbl);
    QByteArray string="Nokia";
    QCryptographicHash *hash=new QCryptographicHash(QCryptographicHash::Md4);
    hash->addData(string);
    QByteArray string1=hash->result();
    lbl->setText(string1); // TODO: use e.g. toHex or toBase64
    lay->addWidget(lbl1);
    lay->addWidget(lbl);
    win->setLayout(lay);
    win->setStyleSheet("* { background-color:rgb(199,147,88); padding: 7px ;    color:rgb(255,255,255);");
    win->showMaximized();
    return a.exec();
}
```

## ScreenShot

More About [QCryptographicHash](#)

