

```
#include "mainwindow.h"
```

```
#include "ui_mainwindow.h"
```

```
#include <QFile>
```

```
#include <QFileDialog>
```

```
#include <QTextStream>
```

```
#include <QMessageBox>
```

```
#include <QFontDialog>
```

```
#include <QFont>
```

```
#include <QColorDialog>
```

```
#include <QColor>
```

```
#include <QPalette>
```

```
#include <QPrinter>
```

```
#include <QPrintDialog>
```

```
MainWindow::MainWindow(QWidget *parent) :
```

```
    QMainWindow(parent) ,
```

```
    ui(new Ui::MainWindow)
```

```
{
```

```
    ui->setupUi(this);
```

```
    this->setCentralWidget(ui->textEdit);
```

```
}
```

```
MainWindow::~MainWindow()
```

```
{
```

```
    delete ui;
```

```
}
```

```
void MainWindow::on_actionNew_triggered()
```

```
{
```

```
    file_path = "";
```

```
    ui->textEdit->setText("");
```

```
}
```

```
void MainWindow::on_actionopen_triggered()
```

```
{
```

```
    QString file_name = QFileDialog::getOpenFileName(this, "Open the  
file");
```

```
    QFile file(file_name);
```

```
    file_path = file_name;
```

```
    if(!file.open(QFile::ReadOnly | QFile::Text))
```

```
{
```

```

        QMessageBox::warning(this, "..", "file not open");
        return;
    }

    QTextStream in(&file);
    QString text = in.readAll();
    ui->textEdit->setText(text);

    file.close();
}

void MainWindow::on_actionclose_triggered()
{
    QFile file(file_path);

    if(!file.open(QFile::WriteOnly | QFile::Text))
    {
        QMessageBox::warning(this, "..", "file not open");
        return;
    }

    QTextStream out(&file);
    QString text = ui->textEdit->toPlainText();
    out << text;

    file.flush();
    file.close();
}

void MainWindow::on_actionSave_as_triggered()
{
    QString file_name = QFileDialog::getSaveFileName(this, "Save the
file");
    QFile file(file_name);
    file_path = file_name;

    if(!file.open(QFile::WriteOnly | QFile::Text))
    {
        QMessageBox::warning(this, "..", "file not open");
        return;
    }
}

```

```

    QTextStream out(&file);
    QString text = ui->textEdit->toPlainText();
    out << text;

    file.flush();
    file.close();
}

void MainWindow::on_actionCut_triggered()
{
    ui->textEdit->cut();
}

void MainWindow::on_actionCopy_triggered()
{
    ui->textEdit->copy();
}

void MainWindow::on_actionPaste_triggered()
{
    ui->textEdit->paste();
}

void MainWindow::on_actionRedo_triggered()
{
    ui->textEdit->redo();
}

void MainWindow::on_actionUndo_triggered()
{
    ui->textEdit->undo();
}

void MainWindow::on_actionNotepad_triggered()
{
    QString about_text;
    about_text = "Auther    :    Dimerson Coelho\n";
    about_text += "Date      :    25/10/2018\n";
    about_text += "(C)    Notepad (R)";
    QMessageBox::about(this, "About Notepad", about_text);
}

```

```

}

void MainWindow::on_actionFont_triggered()
{
    bool ok;
    QFont font = QFontDialog::getFont(&ok, this);
    if (ok)
        ui->textEdit->setFont(font);
    else
        return;
}

void MainWindow::on_actionColor_triggered()
{
    QColor color = QColorDialog::getColor(Qt::white, this, "Choose
Color");
    if (color.isValid())
        ui->textEdit->setTextColor(color);
}

void MainWindow::on_actionBackground_Color_triggered()
{
    QColor color = QColorDialog::getColor(Qt::white, this, "Choose
Color");
    if (color.isValid())
        ui->textEdit->setTextBackgroundColor(color);
}

void MainWindow::on_actionBackground_Color_Edit_Text_triggered()
{
    QColor color = QColorDialog::getColor(Qt::white, this, "Choose
Color");
    if (color.isValid())
        ui->textEdit->setPalette(QPalette(color));
}

void MainWindow::on_actionPrint_triggered()
{
    QPrinter printer;
    printer.setPrinterName("Desired printer name");
    QPrintDialog dialog(&printer, this);

```

```
if(dialog.exec() == QDialog::Rejected)
    return;
ui->textEdit->print(&printer);
}
```