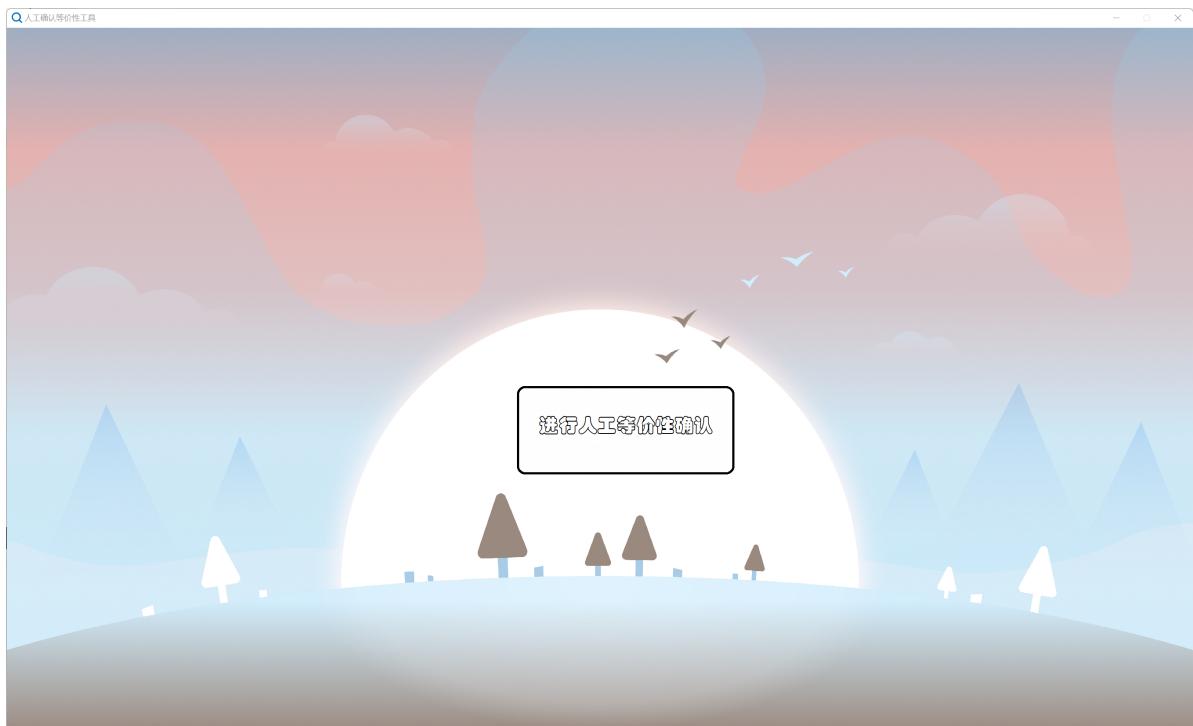


实验五实验报告

一.关键代码介绍及界面展示

1.功能介绍

主界面：简约优雅 符合本课程同学的一贯作风



确认界面：分为两侧 可自行进行选择文件 大气清爽

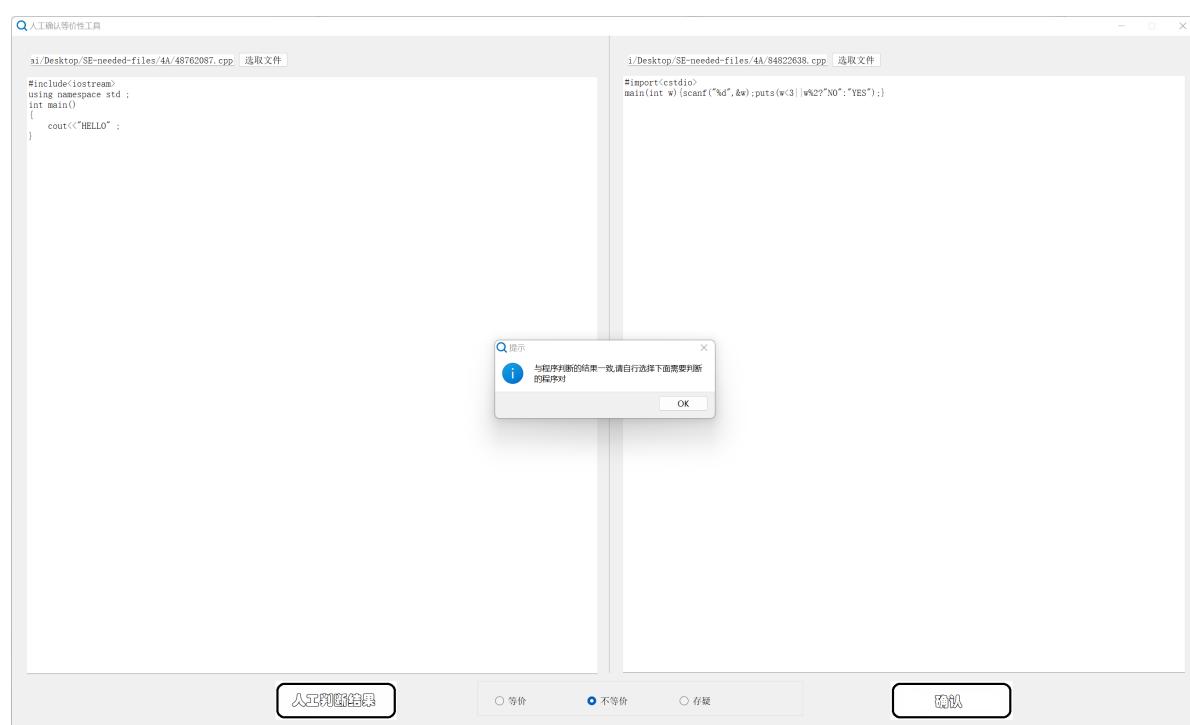


```
打开文件地址 QString path = QFileDialog::getOpenFileName(this, "打开文件", "C:\\\\Users\\\\dai\\\\Desktop\\\\SE-needed-files\\\\");
写入文件地址 QFile file("E://Qt_Files//os_ui//result.txt");
读取文件地址 QFile file1("E://Qt_Files//os_ui//程序判断结果.txt");
```

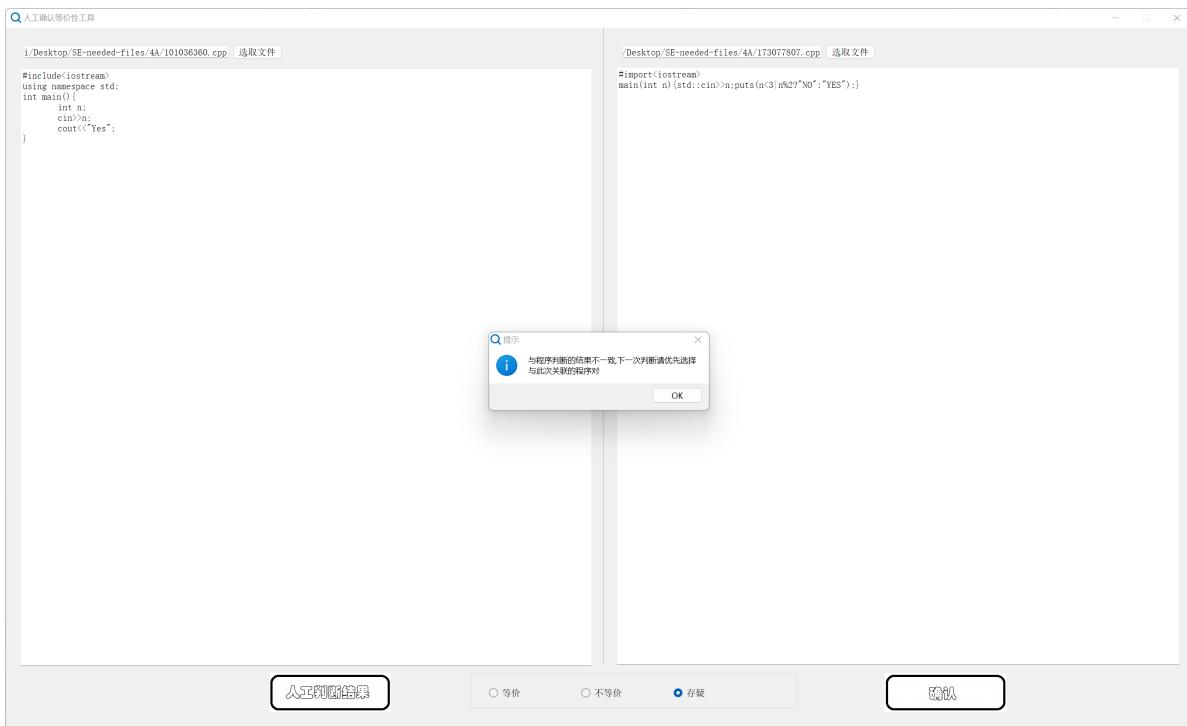
写入提示：



若与程序判断结果一致 内容栏 路径栏清空 用户自行选择下一个判断的等价对



若与程序判断结果不一致 路径栏不清空 用户可只改变一个等价对以继续判断



//关键代码:

//点击确认后几个提示框的代码

//写入文件

```
connect(startBtn1,&MypushButton::clicked,[=](){
    QFile file("E://Qt_Files//os_ui//result.txt");
    file.open( QIODevice::ReadWrite | QIODevice::Append);
    QTextStream out(&file);
    QString c1 =ff->lineEdit->text().mid(40,-1);
    QString c2 =ff->lineEdit_3->text().mid(40,-1);
    QString c3;
    if(!ff->lineEdit->text().isEmpty() && !ff->lineEdit_3->text().isEmpty()){
        out << ff->lineEdit->text().mid(40,-1);
        out << "      ";
        out << ff->lineEdit_3->text().mid(40,-1);
        out << "      ";
        out << "judgement: ";
        QObjectList list = ff->groupBox->children();
        foreach(QObject* obj,list){
            QRadioButton* a=(QRadioButton*)obj;
            if (a->isChecked()){
                //qDebug()<<a->text();
                QString c4=a->text();
                c3=c4;
                out << a->text();
                if(QString::compare(c3,"等价")==0){
                    //qDebug()<<"sss";
                    c3="equivalence";
                }
                else if(QString::compare(c3,"不等价")==0){
                    //qDebug()<<"kkk";
                    c3="inequivalence";
                }
            }
        }
    }
})
```

```

        }
        else if(QString::compare(c3,"存疑")==0){
            //qDebug()<<"ppp";
            c3="doubtful";
        }
        out << "\n";
    }
}
file.close();

}

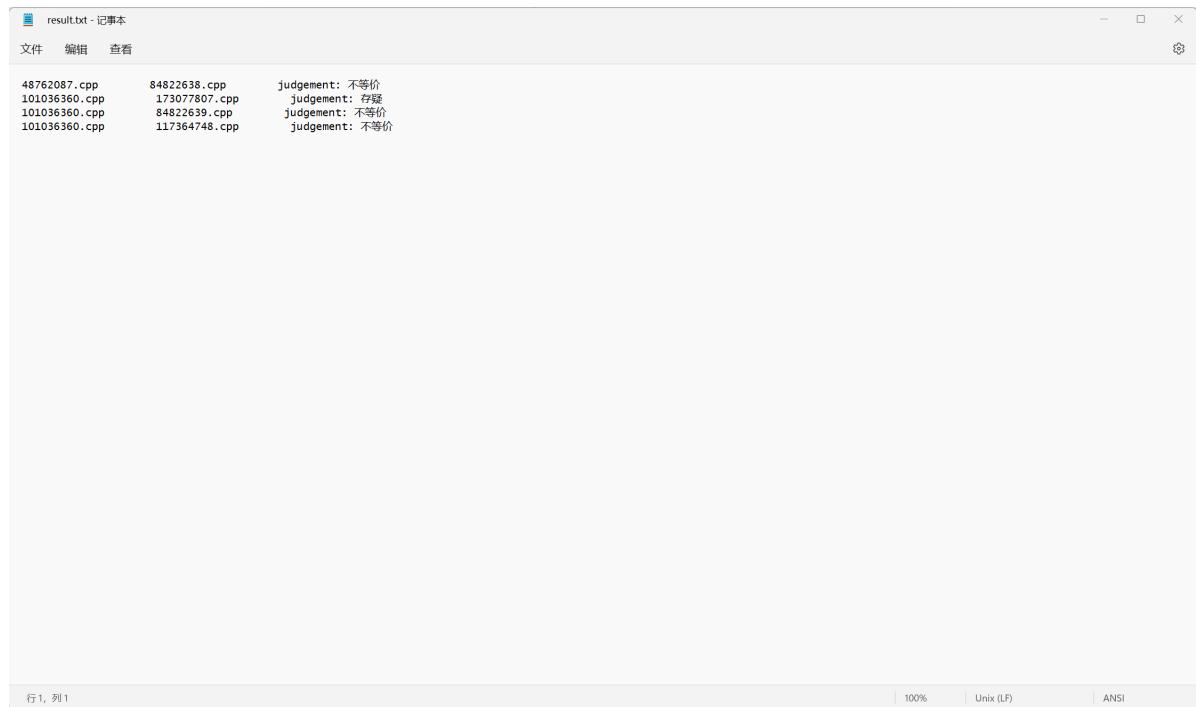
QMessageBox::information(this,"提示","你的结果已存入本目录下的result.txt中");
//与程序判断结果进行对比
 QFile file1("E://Qt_Files//os_ui//程序判断结果.txt");
if(file1.open(QIODevice::ReadOnly))
{
    char buffer[2048];
    //读取所有内容
    //QByteArray bytearr = file.readAll();
    // qDebug()<< "all" << bytearr;
    //逐行读取内容
    while(!file1.atEnd()){
        qint64 lineLen = file1.readLine(buffer,sizeof(buffer));
        //qDebug()<< "b1" <<lineLen;
        if(lineLen!=-1)
        {
            //qDebug()<< "b1" <<buffer;
            char *token;
            const char s[2] = "|";
            /* 获取三个子字符串 */
            token = strtok(buffer,s);
            QString s1=(QString) token;
            token = strtok(NULL,s);
            QString s2=(QString) token;
            token = strtok(NULL,s);
            QString s3=(QString) token;
            s3=s3.simplified();
            //qDebug()<< s1;
            //qDebug()<< s2;
            //qDebug()<< s3;

if(QString::compare(c1,s1)==0&&QString::compare(c2,s2)==0){
                //qDebug()<< c3;
                //qDebug()<< s3;
                if(QString::compare(c3,s3)==0){
                    QMessageBox::information(this,"提示","与程序判断
的结果一致,请自行选择下面需要判断的程序对");
                    ff->lineEdit->clear();
                    ff->lineEdit_3->clear();
                    ff->textEdit->clear();
                    ff->textEdit_2->clear();
                    ff->radioButton->setChecked(true);
                    //ff->radioButton_2->setChecked(true);
                }
            }
        }
    }
}

```

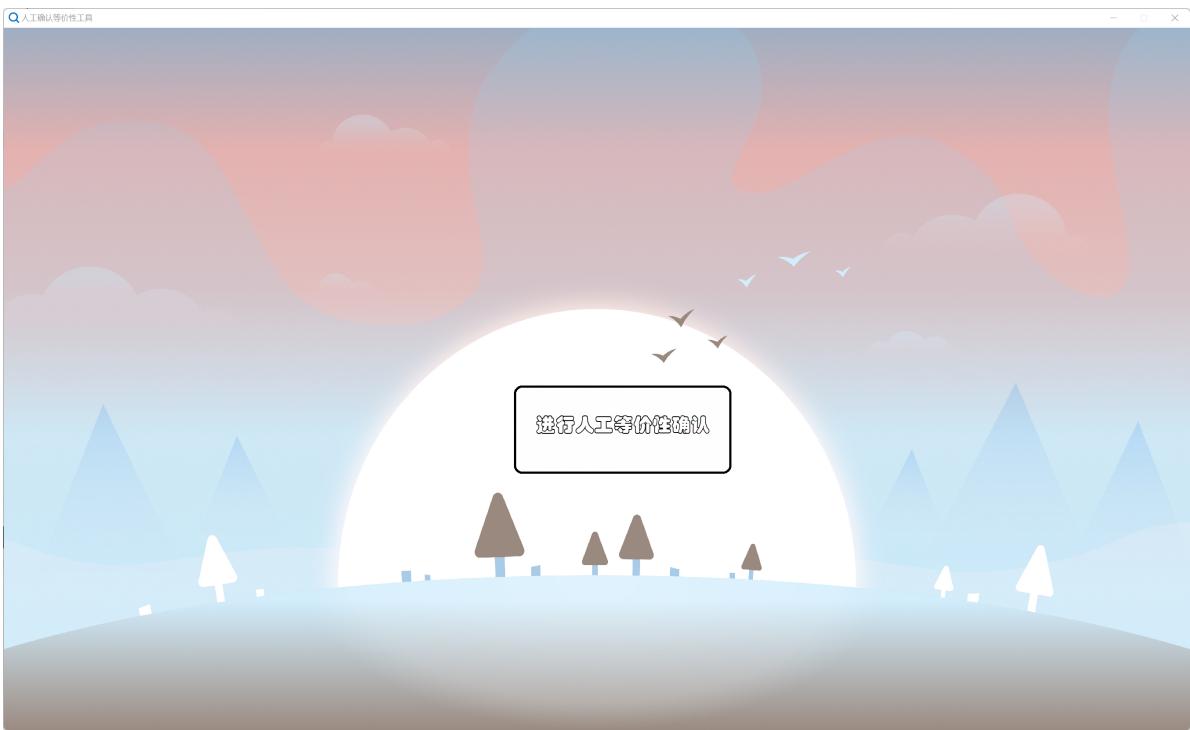
```
//ff->radioButton_3->setChecked(true);  
  
}  
else{  
    QMessageBox::information(this,"提示","与程序判  
断的结果不一致,下一次判断请优先选择与此次关联的程序对");  
    //ff->radioButton->setChecked(true);  
}  
}  
  
}  
}  
file1.close();  
});
```

2.写入结果



```
48762087.cpp      84822638.cpp      judgement: 不等价  
101036360.cpp     173077807.cpp     judgement: 等价  
101036360.cpp     84822639.cpp      judgement: 不等价  
101036360.cpp     117364748.cpp    judgement: 不等价
```

3.额外功能



点击进行人工等价性确认按钮后 按钮会下弹并回弹 具有提示作用 十分有趣

4.git仓库

项目地址: <https://github.com/daievan/Software-Engineering-Lab5.git>

```
dai@MSI MINGW64 ~/Desktop/lab5/Software-Engineering-Lab5 (main)
$ git add .
warning: in the working copy of 'code/result.txt', LF will be replaced by CRLF t
he next time Git touches it

dai@MSI MINGW64 ~/Desktop/lab5/Software-Engineering-Lab5 (main)
$ git commit -m "code"
[main (root-commit) 17ef559] code
 19 files changed, 985 insertions(+)
  create mode 100644 code/form.ui
  create mode 100644 code/main.cpp
  create mode 100644 code/mainscene.cpp
  create mode 100644 code/mainscene.h
  create mode 100644 code/mainscene.ui
  create mode 100644 code/mypushbutton.cpp
  create mode 100644 code/mypushbutton.h
  create mode 100644 code/os_ui.pro
  create mode 100644 code/os_ui.pro.user
  create mode 100644 code/res.qrc
  create mode 100644 code/res/R-C.png
  create mode 100644 code/res/background.jpg
  create mode 100644 code/res/button-start.png
  create mode 100644 code/res/confirm.png
  create mode 100644 code/res/result.png
  create mode 100644 code/result.txt
  create mode 100644 code/widget1.cpp
  create mode 100644 code/widget1.h
  create mode 100644 "code\b347\b250\b213\b345\b272\b217\b345\b210\b244\b346\b226\b255\b347\b2
73\b223\b346\b236\b234.txt"
```

```
dai@MSI MINGW64 ~/Desktop/lab5/Software-Engineering-Lab5 (main)
$ git push
Enumerating objects: 23, done.
Counting objects: 100% (23/23), done.
Delta compression using up to 20 threads
Compressing objects: 100% (22/22), done.
Writing objects: 100% (23/23), 3.31 MiB | 2.08 MiB/s, done.
Total 23 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/daievan/Software-Engineering-Lab5.git
 * [new branch]      main -> main
```

```
dai@MSI MINGW64 ~/Desktop/lab5/software-Engineering-Lab5 (main)
$ git log
commit 17ef5593c00e4ad456534b52b943bec343a732f4 (HEAD -> main, origin/main)
Author: daievan <2265495748@qq.com>
Date:   Thu Dec 1 20:09:08 2022 +0800

    code
```