C++ Indentor and Error Detector

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Github Link:

https://github.com/kailashjp/Code_Indentor_Error_Detector

Problem statement :

Given a C++ program as input, the C++ code Indentor and Error detector displays intended C++ program with detected errors.

Functionalities available:

- Declaring and initializing variables

- Operations : Arithmetic, logical, assignment ,relational

- Reading input and printing output

- Statement completion

- Functions and procedures

Tools used:

- Lex
- Yacc

Implementation:

This compiler has been constructed using lex and yacc . The keywords/ tokens are declared in the lex file (i.l). The productions and rules for displaying intended c++ code are implemented in yacc file (i.y).

Instructions:

lex i.l

```
yacc -d i.y
gcc lex.yy.c y.tab.c –o indent
./indent docx
```

Sample Input:

```
#include<iostream.h>

int main()

{return ;}

int sample(float f)

{

int x=10;

int y=20;

int z;

int i ;

if(x<y)

{z=5;

}

for(i=0;i<10;i++){printf("Hie");}

return 0;

}
```

Output:

```
#include<iostream.h>
```

```c
int main()
{
    return;
}
int sample(float f)
{
    int x=15;
        int y=30;
            int z;
        if(x<y)
        {
            z=5;
        }
        for(i=0;i<10;i++)
        {
            printf("Hie");
        }
        return 0;
}
```