**Automatic C++ Code Indenting and Error Detecting**

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**Problem statement :**

Given a C++ program as input, the automatic 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 swap(double s)

{

int a;

int b;

int i;

if(a<b)

{e=5;

}

for(i=0;i<10;i++){printf(“Hie”);}

return 0;

}

Output:

#include<iostream.h>

int main()

{

return;

}

int swap(double s)

{

int a=15;

int b=30;

int i;

if(a<b)

{

e=5;

}

for(i=0;i<10;i++)

{

printf(“Hie”);

}

return 0;

}