

# Assignment

CSE-0302 Summer 2021

Prachurja Kanti Banrman Praggo  
Department of Computer Science and Engineering  
State University of Bangladesh (SUB)  
Dhaka, Bangladesh  
prachurjapraggo@gmail.com

## Abstract—Assignment

## Index Terms—code in c/c++

### I. INTRODUCTION

This assignment is given by Compiler design course. The assignment is done with c and c++ code.

### II. PROPOSED METHODOLOGY

There was given 2 assignment.

1st assignment is done by code c++

Here is the code.....

```
include<bits/stdc++.h> using namespace std;
define optimize() ios_base::sync_with_stdio(0); cin.tie(0); cout.tie(0); define endl '\n'
int main() optimize(); string p; char a;
FILE *input; FILE *output;
input = fopen("input.txt","r"); output = fopen("output.txt","w");
while(!feof(input)) a = fgetc(input); p+=a; cout<<p;
cout<<endl;
for(int i=0; i<p.size(); i++) if(p[i] == '/' p[i+1] == '/')
//checking the sings and space while(p[i] != ') i++;
else if(p[i] == '*') while(p[i] != '/') i++;
else if(p[i] != 32 p[i] != 9 p[i] != ' p[i] != ' p[i] != '*') if(p[i-1] == ') continue; cout<<p[i]; fputc(p[i],output);
fclose(input); fclose(output); return 0;
```

2nd Assignment code is not working properly.....

```
include<bits/stdc++.h> using namespace std;
define optimize() ios_base::sync_with_stdio(0); cin.tie(0); cout.tie(0); define endl '\n'
int isKeyword(string buffer) string keywords[32] = {"auto","break","case","char","const","continue","default",
"do","double","else","enum","extern","float","for","goto",
"if","int","long","register","return","short","signed",
"sizeof","static","struct","switch","typedef","union",
"unsigned","void","volatile","while"}; int i, flag = 0;
for(i = 0; i < 32; ++i) if(keywords[i] == buffer) flag = 1;
break; return flag;
int main() optimize(); string buffer; string operators = "+-
*string num = "0123456789"; char ch; FILE *fp; int i,j=0; fp
= fopen("output.txt","r"); if(fp == NULL) printf("error while
opening the file"); return 0; FILE *input; string s, head; char
p; input = fopen("output.txt","r");
```

```
while(!feof(input)) p = fgetc(input); s+=p;
for(int j=0; j<s.size(); j++) ch = s[j]; for(int i = j, m=0; m
< 4; m++) head[m] = s[j];
if(head == "main") cout<<[fun "head"]";
for(int i = j, m=0; m < 6; m++) head[m] = s[j]; if(ch ==
operators[i]) cout<<[op "ch"]";
if(head == "printf" — head == "return") cout<<[kw
"head"]";
for(int i = j, m=0; m < 10; m++) if(ch == num[i])
cout<<[num "ch"]"; for(int i = j, m=0; m < 17; m++)
head[i] = s[j];
if(head == "include<stdio.h>") cout<<[hdr "head"]";
if(s[i] == ',') cout<<[sep "s[i]"]";
fclose(input); return 0;
```

### III. CONCLUSION AND FUTURE WORK

None

### ACKNOWLEDGMENT

I would like to thank my honourable **Khan Md. Hasib Sir** for his time, generosity and critical insights into this project.

### REFERENCES

- [1] Wilhelm, R., Maurer, D. (1995). Compiler design. Reading: Addison-Wesley Publishing Company.
- [2] Grune, D., Van Reeuwijk, K., Bal, H. E., Jacobs, C. J., Langendoen, K. (2012). Modern compiler design. Springer Science Business Media.
- [3] Muchnick, S. (1997). Advanced compiler design implementation. Morgan kaufmann.
- [4] Hoare, C. A. R., Jifeng, H., Sampaio, A. (1993). Normal form approach to compiler design. Acta informatica, 30(8), 701-739.
- [5] Hoare, C. A. R., He Jifeng, and Augusto Sampaio. "Normal form approach to compiler design." Acta informatica 30.8 (1993): 701-739.
- [6] Bozkus, Z., Choudhary, A., Fox, G., Haupt, T., Ranka, S. (1993, November). Fortran 90D/HPF compiler for distributed memory MIMD computers: Design, implementation, and performance results. In Supercomputing'93: Proceedings of the 1993 ACM/IEEE Conference on Supercomputing (pp. 351-360). IEEE.
- [7] Bozkus, Zeki, et al. "Fortran 90D/HPF compiler for distributed memory MIMD computers: Design, implementation, and performance results." Supercomputing'93: Proceedings of the 1993 ACM/IEEE Conference on Supercomputing. IEEE, 1993.
- [8] Millstein, R. E. (1971). Compiler Design for the ILLIAC 4. MASSACHUSETTS COMPUTER ASSOCIATES INC WAKEFIELD.