

1. IMPLEMENTATION OF SYMBOL TABLE

AIM To write a C program to implement a symbol table.

ALGORITHM

- 1) Start the program.
- 2) Get the input from the user with the terminating symbol '\$'.
- 3) Allocate memory for the variable by dynamic memory allocation function.
- 4) If the next character of the symbol is an operator then only the memory is allocated.
- 5) While reading, the input symbol is inserted into symbol table along with its memory address.
- 6) The steps are repeated till '\$' is reached.
- 7) To reach a variable, enter the variable to the searched and symbol table has been checked for corresponding variable, the variable along with its address is displayed as result.
- 8) Stop the program.

PROGRAM

```
#include <stdio.h>
#include <conio.h>
#include <ctype.h>
#include <alloc.h>
#include <string.h>
#include <math.h>
void main()
{
    int i=0,j=0,m=0,n,flag=0;
    void *p,*add[5];
    char ch,ch1[15],d[15],c;
    clrscr();
    printf("Expression terminated by '$ '\n");
    while((c=getchar())!='$')(h[j]=c,j++,i)++;
    printf("Given Expression : ");
    i=0;
    while(i<=m)
    {
        printf("%c",h[i]);
        i++;
    }
    printf("\n Symbol Table is ");
    printf("Symbol Table is ");
    while(i<=m)
    {
        c=h[i];
        if(isalpha(isalnum(c)))
```

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to to analyze and differentiate different Topdown parsing algorithms. Able to to implement various kinds of bottomdown parsing algorithms. Able to reduce the coding effort by using the builtin tool YACC in implementing bottomup parsing for various program constructs. <http://oliviachang.com/uploadedfiles/7-speed-automatic-with-manual-shift.xml>

MAPPING of CO to PO COs POs a b c d e f g h i j k l Able to understand the implementation of transition diagrams in tokenizing the lexemes of a source program. H M H M H M Able to understand the benefit of using builtin tool in tokenizing the lexemes of a source program by reducing the programmers effort. Each lab session will last for approximately THREE hours, which is divided into the following time slots Instructor will give a brief demonstration during the allocated time and students will be given some handson exercises. Students must i. Answer all the given questions ii. Report to the lab instructor and demonstrator to submit the answers before the lab ends No takehome assignment will be allowed. The code written by the student should meet the following Program should have proper input prompt messages and descriptive output. Input validation should be done data type, range error etc. and give appropriate error messages and suggest corrective actions. Comment lines should be used to give problem statement, describe functions and key logics. Program should be indented properly. Variables and functions should be meaningfully named. All the students should sit according to their roll numbers starting from their left to right. All the students are supposed to enter the terminal number in the log book. Students should not change the terminal on which they are working. Students must be in the lab before the lab activities started. No late coming is tolerated without prior consent from the respective lecturer. During lab session any form of portable data storage and retrieval devices is prohibited. If found, then we reserve the right to confiscate the item and devoid your mark for that particular lab session. Duplicated lab assignment the source and duplicate will be considered void. Submission procedure a Create a folder in the D \ drive of your workstation. Name the folder with your ID number and your name.

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At this point it is too early to give elaborate demonstrations of the two progrmas, but do browse through their home pages and their manuals. Java Documentation Very useful link to have in your bookmarks is Suns Java Documentation web page. If you are using it very often and I predict that you will, you might find it convenient to download it locally onto the machine you will be working on. A work of caution though last time I downloaded it, once uncompressed it was about 200Mb big. Reading Paths are provided belowContinue to work on your projects. Your attendance is marked as your VarDecl, etc.. Management Technique. Edward Andert,. Mohammad Khayatian. Aviral Shrivastava. Finnish Innovation. Fund www.sitra.fi. values, attitudes and norms, or concrete human behavior andElements. 25 Building SSA form in a compiler for PHP. B is the parent of class A. Because Bantam only supports single inheritance, the class hierarchy.This is usually because the input corresponds to some movement in the physical world, and the output has to relate to that same movement. The lag from input time to output time must be sufficiently small for acceptable timeliness. Example MP3Player, telephone software.Learn how we and our ad partner Google, collect and use data. Both the courses will focus lexical analysis, syntactic analysis, semantic analysis, abstract syntax tree and codegeneration as well as basic optimizations. The latter part will focus on intermediate representations and simpleThe language of. There would also be effort to study modern compilers like LLVM in the form of miniassignments.This is the B.Tech lab accompanying the corresponding B.Tech course CS3020. For registrants of CS3020, a registration to CS3021 isUseless symbols and their removal, Left recursion and Left factoring, Recursive Descent

parsing.SSA form introduction.

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The program fragments written by the user are executed in the
The Yacc user specifies
The description is in the form of pairs of regular expressions and C. This file is compiled and. When the executable is run, it analyzes its input for occurrences
Whenever it finds one,
Anyone familiar with. Yacc should be able to use Bison with little trouble. Principles, Techniques, and Tools Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman AddisonWesley Pub Co ISBN 0201100886
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