

PROGRAM - 7 (SINGLY LINKED LIST OPERATIONS)

Design, Develop and Implement a menu driven Program in C for the following operations on **Singly Linked List (SLL)** of Student Data with the fields: *USN, Name, Branch, Sem, PhNo*

- Creating a **SLL** of **N** Students Data by using *front insertion*
- Display the status of **SLL** and count the number of nodes in it
- Perform Insertion / Deletion at End of **SLL**
- Perform Insertion / Deletion at Front of **SLL** (Demonstration of stack)
- Exit

PROGRAM CODE

```
/* C program to implement operations on Singly Linked List.
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Designation: Assistant Professor
Dept: ISE, CMRIT
*/

#include<stdio.h>
#include<stdlib.h>

struct student
{
    char usn [ 20 ];
    char name [ 20 ];
    char branch [ 20 ];
    int sem;
    long int phno;
    struct student *link;
};

typedef struct student* STUDENT;

STUDENT start = NULL; /*Initially start contains nothing.*/

/*Function definition to allocate memory.*/
STUDENT create()
{
    STUDENT getnode;

    getnode = ( STUDENT ) malloc ( sizeof ( struct student ) );

    if ( getnode == NULL )
    {
        printf ( "\nMemory could not be allocated!!!" );
        return;
    }
}
```

Vtu Lab Manual 1 Year

Anthony S. Fauci



Vtu Lab Manual 1 Year:

Introduction to Computer Graphics Rohit Srivastava & Dharendra Kumar Sharma, This book mainly for under graduate students who have interest in computer graphics Here we have aligned the fundamental knowledge of computer graphics and practical approach Entire book shows clarity of basic concepts and principles and its implementation using programming language Open source tool as Open GL with C programming used This book reviews computer calculations and programming strategies for indicating and producing movement for graphical articles or at least Computer graphics It is basically about two and three dimensional 3D Computer graphics The primary audience is advanced undergraduate or beginning graduate students in Computer Science Computer graphics developers who need to gain proficiency with the rudiments of computer animation programming and specialists who use programming bundles to produce computer animation digital illustrators who need to more readily comprehend the fundamental computational issues of animation programming will likewise profit from this book This book presents a large number of the significant ideas of Computer graphics to under graduate students and beginners A few of these ideas are not new They have previously showed up in generally accessible academic distributions specialized reports course books and lay press articles The advantage of writing a textbook sometime after the appearance of an idea is that its long term impact can be understood better and placed in a larger context Our aim has been to treat ideas with as much sophistication as possible which includes omitting ideas that are no longer as important as they once were while still introducing beginning students to the subject lucidly and gracefully

National Union Catalog ,1981 Includes entries for maps and atlases *The National Union Catalog, Pre-1956 Imprints* ,1968 **National Union Catalog, 1981** ,1982 **Who is Who in Vilnius City 2003** ,2003 **Autocar** ,1998

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Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8
 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these
 experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks Section A Experiments 1 To determine
 resistance per cm of a given wire by plotting a graph of potential difference versus current 2 To find resistance of a given
 wire using metre bridge and hence determine the specific resistance of its material 3 To verify the laws of combination series
 parallel of resistances using a metre bridge 4 To compare the emf of two given primary cells using potentiometer 5 To
 determine the internal resistance of given primary cells using potentiometer 6 To determine resistance of a galvanometer by
 half deflection method and to find its figure of merit 7 To convert the given galvanometer of known resistance and figure of
 merit into an ammeter and voltmeter of desired range and to verify the same 8 To find the frequency of the a c mains with a
 sonometer Activities 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure
 resistance voltage AC DC current AC and check continuity of a given circuit using multimeter 3 To assemble a household
 circuit comprising three bulbs three on off switches a fuse and a power source 4 To assemble the components of a given
 electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of
 a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are
 not connected in proper order and correct the circuit and also the circuit diagram Section B Experiments 1 To find the value
 of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens
 by plotting graphs between u and v or between $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4
 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by
 plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a
 travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To
 draw the $I-V$ characteristic curve of a $p-n$ junction in forward bias and reverse bias 9 To draw the characteristic curve of a
 zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter npn or pnp
 transistor and to find out the values of current and voltage gains Activitie 1 To study effect of intensity of light by varying
 distance of the source on a L D R 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed
 collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type
 transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic
 component e g diode transistor or IC is in working order 4 To observe refraction and lateral deviation of a beam of light
 incident obliquely on a glass slab 5 To observe polarization of light using two Polaroids 6 To observe diffraction of light due
 to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a
 candle and a screen for different distances of the candle from the lens mirror 8 To obtain a lens combination with the

specified focal length by using two lenses from the given set of lenses Suggested Investigatory Projects 1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young s modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit **Ps-1** Peter Jeschofnig,2008-09

Vtu Lab Manual 1 Year Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Vtu Lab Manual 1 Year**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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