

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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*/

#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

Rosina Ehmman



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

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Lab Manual Latest Edition Dr. J. P. Goel,2016-12-17 Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these

demonstration experiments B Evaluation 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 I C 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

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Table of Contents Vtu Lab Manual 1 Year

1. Understanding the eBook Vtu Lab Manual 1 Year
 - The Rise of Digital Reading Vtu Lab Manual 1 Year
 - Advantages of eBooks Over Traditional Books
2. Identifying Vtu Lab Manual 1 Year
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vtu Lab Manual 1 Year
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vtu Lab Manual 1 Year
 - Personalized Recommendations
 - Vtu Lab Manual 1 Year User Reviews and Ratings
 - Vtu Lab Manual 1 Year and Bestseller Lists
5. Accessing Vtu Lab Manual 1 Year Free and Paid eBooks
 - Vtu Lab Manual 1 Year Public Domain eBooks
 - Vtu Lab Manual 1 Year eBook Subscription Services
 - Vtu Lab Manual 1 Year Budget-Friendly Options

-
6. Navigating Vtu Lab Manual 1 Year eBook Formats
 - ePub, PDF, MOBI, and More
 - Vtu Lab Manual 1 Year Compatibility with Devices
 - Vtu Lab Manual 1 Year Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vtu Lab Manual 1 Year
 - Highlighting and Note-Taking Vtu Lab Manual 1 Year
 - Interactive Elements Vtu Lab Manual 1 Year
 8. Staying Engaged with Vtu Lab Manual 1 Year
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vtu Lab Manual 1 Year
 9. Balancing eBooks and Physical Books Vtu Lab Manual 1 Year
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vtu Lab Manual 1 Year
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Vtu Lab Manual 1 Year
 - Setting Reading Goals Vtu Lab Manual 1 Year
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Vtu Lab Manual 1 Year
 - Fact-Checking eBook Content of Vtu Lab Manual 1 Year
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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