ASSIGNMENT

Chap 3: Assign: 2

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Instructions:

- **Complete These Codes ASAP!**
- **Ask Group leader For Help If It Is Really Needed.**
- **Complete This Assignment With Your Class Codes.**
- **Take necessary inputs from user!**

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Program 1: Write a C program that has four variables of different datatypes, store their addresses into pointers of respective types and print addresses of both variables and pointers and Print values of variables by dereferencing the pointers.

Program 2: Write a C program to demonstrate addition operation from pointer arithmetic onto an integer pointer and print the changes into address resolutions done by following operations

a. Incrementing by 2
b. Incrementing by 3
c. Incrementing by 1

{Note: Dereferencing the pointers are not necessary & Commenting of operations is expected}

Program 3: Write a C program to demonstrate addition operation from pointer arithmetic onto a double pointer and print the changes into address resolutions done by following operations

a. Incrementing by 1
b. Incrementing by 4
c. Incrementing by 0

{Note: Dereferencing the pointers are not necessary & Commenting of operations is expected}

Program 4: Write a C program to demonstrate addition operation from pointer arithmetic onto a character pointer and print the changes into address resolutions done by following operations

a. Incrementing by 2
b. Incrementing by 3
c. Incrementing by 4

{Note: Dereferencing the pointers are not necessary & Commenting of operations is expected}

Program 5: Write a C Program to take two integers as input from the user, store the address of those variables into a separate integer pointers, perform basic mathematical operations on numbers such as Addition, Subtraction, Multiplication, and Division by dereferencing pointers, and Print the results.

Program 6: Write a C Program to print addresses of each array indexes of array 10 integers and print values too.

Input: Array Elements

Output: Array Elements and address of that element in array.

Program 7: Write a C program to define an array of 10 floats declare a pointer to the array and print values from that array using pointer. Take inputs from user.

Program 8: Write a C program that has a variable of integer type declare a pointer to that variable, assign a value to that variable using pointer, and take value from user.

Input: 10

Output:

Value at variable: 10

Value by dereferencing pointer 10

Program 9: Write a C program to define an array of 10 integers, Accept values from user into array using pointer.

{Note: Can use array manipulation as pointer or can declare a separate Pointer to array}