

Assignment No. –

Pointers in 'C'

Write a program in 'C' to perform the following tasks using pointers:

1. Read three variables of integer, float & double type and show the memory location and values stored in them.
2. Store 'n' elements in an array, print them with their address location.
3. Read a string from the terminal and print it using pointer.
4. Find the sum and average of five numbers.
5. Find the area of a circle where the radius is passed as an integer pointer to a function.
6. Add two numbers by passing them to a function where the first argument is an address and the second one is an integer. Display both the value and address of the result obtained.
7. Find the factorial of a number where the address of the number is passed to a function and the function returns the result of factorial.
8. Find the largest of three numbers using function. The function should only return the address of the largest number.
9. Pass the address of two numbers to a function, swap them and display the result inside the function.
10. Check whether a string is palindrome or not.
11. Pass a string as an argument to a function, reverse it and find its length.
12. Pass an array of size five to a function and calculate the sum of the elements present in it.
13. Find the sum and average of the elements present in a 3 X 3 matrix. User has to pass the address of the input matrix as an argument of a function.
14. Pass the address of two matrices to a function, add the elements and store the result in a third matrix.

Signature of the Teacher