
In this lab, you will learn to use pointers in C.

The basic objectives are:

- (1) Understand pointers.
- (2) Understand and apply call by reference.
- (3) Understand and apply pointers to write effective C programs.

Task 1: Write a program to print the address of each element of an array of ten integers. Do you see all elements appearing sequentially one after the other?

Task 2: Write a function to swap two numbers using call by reference.

Task 3: Write a program that reverses an array of integers using pointers.

Sample Input

Number of values = 5

Values: 1 2 3 4 5

Sample Output

Values: 5 4 3 2 1

Task 4: What is the output of the following program? Can you explain the output?

```
int main()
{
    char *ptr = "IIIT Sri City";
    printf("%c\n", *&*ptr);
    return 0;
}
```