

## LC lab program 1:

### 1. Write a program to eliminate white spaces and comments.

**Aim:** Program to eliminate white spaces and comments.

**Algorithm:**

- 1) Initialize 'count' = 0 (Count of non-space character seen so far)
- 2) Iterate through all characters of given string, do following
  - a) If current character is non-space, then put this character at index 'count' and increment 'count'
- 3) Finally, put '\0' at index 'count'

**Program:**

```
#include<stdio.h>
#include<conio.h>

// Function to remove all spaces from a given string
void removeSpaces(char *str)
{
    // To keep track of non-space character count
    int i, count = 0;
    // Traverse the given string. If current character
    // is not space, then place it at index 'count++'
    for (i = 0; str[i]; i++)
        if (str[i] != ' ')
            str[count++] = str[i]; // here count is
                                   // incremented
    str[count] = '\0';
}

// Driver program to test above function
int main()
{
    char str[];
    clrscr();
    printf("Enter the string of words:");
    scanf("%s", &str);
    removeSpaces(str);
    printf("The string after removing spaces is: %s", str);
    return 0;
}
```

**Output:**

Enter the string of words: compiler design lab manual

The string after removing spaces is: compilerdesignlabmanual