

# EEL PROJECT

## ASSIGNMENT 4

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### Research

We had created a contact management system in which we are comparing the contact names, copying contact information, calculate length of contact name, concatenate contact name with other details we had used different functions to implement operations on strings to build this program

We had used these websites for references

1. [Strings in C - GeeksforGeeks](#)
2. [C String Functions - GeeksforGeeks](#)

String functions are the built-in functions declared in <string.h> header file that can be used to perform various operations on the strings such as string copying, concatenation, comparison, searching, and more.

### Analyse

While creating this programme we were getting compile time and run time error continuously, after discussing among the group members we researched on the problems and found a website called geeks for geeks, it is basically a problem-solving platform where we found the solutions for our problems, thus our errors were rectified.

As we had already mentioned the links of websites referred above for your reference.

Work done by the group members:

**Sachin** built the programme

**Shruti** helped with the code, word file, gathering information built the programme

**Nidhi** made the word file and helped with the code

**Bhavna** has gathered the information regarding string operators and basic syntax, also helped to rectify the errors (i.e. syntax and compile error) while programming

## Ideate

In a **Contact Management System**, you store and manage contact information like **names**, **email addresses**, and **phone numbers**. The system can perform operations on these pieces of data, such as comparing names, copying contact details, calculating the length of contact information, and concatenating the name with other details for display purposes.

We did the following modifications in the code:

1. **Compare Contact Names:** Check if two contacts have the same name.
2. **Copy Contact Information:** Copy one contact's name or full details to a new contact.
3. **Calculate Length of Contact Name:** Measure how long the contact's name is.
4. **Concatenate Contact Name with Other Details:** Combine the contact's name, email, and phone number into a single string for display.

## Build

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

int compareNames(char name1[], char name2[]) {
    return strcmp(name1, name2);
}

void copyContactDetails(char src[], char dest[]) {
    strcpy(dest, src);
}

int nameLength(char name[]) {
    return strlen(name);
}

void concatenateContactInfo(char name[], char email[], char phone[], char
result[]) {
    strcpy(result, name);
    strcat(result, " | ");
    strcat(result, email);
    strcat(result, " | ");
    strcat(result, phone);
}

int main() {
    char name1[100], name2[100], email[100], phone[20];
    char copiedName[100], contactDetails[300];

    printf("Enter the first contact name: ");
    fgets(name1, sizeof(name1), stdin);
    name1[strcspn(name1, "\n")] = '\0';

    printf("Enter the second contact name: ");
    fgets(name2, sizeof(name2), stdin);
```

```

name2[strcspn(name2, "\n")] = '\0';

printf("Enter the contact's email: ");
fgets(email, sizeof(email), stdin);
email[strcspn(email, "\n")] = '\0';

printf("Enter the contact's phone number: ");
fgets(phone, sizeof(phone), stdin);
phone[strcspn(phone, "\n")] = '\0';

if (compareNames(name1, name2) == 0) {
    printf("\nThe contact names are the same.\n");
} else {
    printf("\nThe contact names are different.\n");
}

copyContactDetails(name1, copiedName);
printf("\nCopied contact name: %s\n", copiedName);

printf("\nLength of the first contact's name: %d\n", nameLength(name1));
printf("Length of the second contact's name: %d\n", nameLength(name2));

concatenateContactInfo(name1, email, phone, contactDetails);
printf("\nFull contact details: %s\n", contactDetails);

return 0;
}

```

## Test

SCREENSHOT OF OUR COMPLETE CODE WITH OUTPUT OF OUR CODE

```
Enter the first contact name: nidhi
Enter the second contact name: rohini
Enter the contact's email: nidhi@gmail.com
Enter the contact's phone number: 84372843879

The contact names are different.

Copied contact name: nidhi

Length of the first contact's name: 5
Length of the second contact's name: 6

Full contact details: nidhi | nidhi@gmail.com | 84372843879
```

## Implement

Now we can say that output is implemented and our code is also running successfully.

We can implement the project for the calculation of expense of students.

We know that GitHub is used by many people and in corporate sector. So publishing on GitHub will help us to reach out to a large number of consumers.

[NidhiYadav-411/contact-management-system](https://github.com/NidhiYadav-411/contact-management-system)