c program to demonstrate various string operations

#include <stdio.h>

#include <string.h>

int main() {

char str1[50], str2[50];

int choice;

printf("Enter the first string: ");

fgets(str1, sizeof(str1), stdin);

str1[strcspn(str1, "\n")] = '\0'; // Remove the newline character from fgets

printf("Enter the second string: ");

fgets(str2, sizeof(str2), stdin);

str2[strcspn(str2, "\n")] = '\0'; // Remove the newline character from fgets

printf("\nMenu for String Operations:\n");

printf("1. Length of String\n");

printf("2. Concatenate Strings\n");

printf("3. Compare Strings\n");

printf("4. Copy Strings\n");

printf("Enter your choice (1-4): ");

scanf("%d", &choice);

switch (choice) {

case 1:

printf("Length of the first string: %zu\n", strlen(str1));

printf("Length of the second string: %zu\n", strlen(str2));

break;

case 2:

strcat(str1, str2);

printf("Concatenated string: %s\n", str1);

break;

case 3:

// Compare Strings

if (strcmp(str1, str2) == 0) {

printf("Both strings are equal.\n");

} else {

printf("Strings are not equal.\n");

}

break;

case 4:

strcpy(str1, str2);

printf("Copied string: %s\n", str1);

break;

default:

printf("Invalid choice.\n");

break;

}

return 0;

}