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//43(a)COMPARE
#include <stdio.h>
#include <string.h>

int main() {

    char s1[20] = "ScalerAcademy"; // string1
    char s2[20] = "ScalerAcademy.COM"; // string2
    // comparing both the strings
    if (strcmp(s1, s2) == 0) {
        printf("string 1 and string 2 are equal");
    } else {
        printf("string 1 and 2 are different");
    }
}
Output
```

string 1 and 2 are different

```
//43(b)CONCATENATION
#include <stdio.h>
#include <string.h>

int main() {

    char string1[10] = "Hello";
    char string2[10] = "World";
    strcat(string1, string2);
    printf("Output string after concatenation: %s", string1);

}
Output
```

Output string after concatenation: HelloWorld

```
//43(c)COPY OF STRING
#include <stdio.h>
#include <string.h>

int main() {

    char s1[35] = "string 1"; // string1
    char s2[35] = "I'll be copied to string 1."; // string2
    strcpy(s1, s2); // copying string2 to string1
    printf("String s1 is: %s", s1); // printing string1

}
Output
```

String s1 is: I'll be copied to string 1.

```
//43(d)LENGTH OF STRING
#include <stdio.h>
#include <string.h>

int main() {

    char string1[20] = "ScalerAcademy";
    printf("Length of string string1: %ld", strlen(string1));
    return 0;

}
Output
```

Length of string string1: 13

```
//REVERSING IN STRING
#include <stdio.h>
int main()
{
    char str[1000], rev[1000];
    int i, j, count = 0;
    scanf("%s", str);
    printf("\nString Before Reverse: %s", str);
    //finding the length of the string
    while (str[count] != '\0')
    {
        count++;
    }
    j = count - 1;

    //reversing the string by swapping
    for (i = 0; i < count; i++)
    {
        rev[i] = str[j];
        j--;
    }

    printf("\nString After Reverse: %s", rev);
}
```

Hello

String Before Reverse: Hello
String After Reverse: olleH

```
//UPPERCASE AND LOWERCASE IN STRING
#include <stdio.h>
#include <conio.h>
int main ()
{
    char upr, lwr; // declare variables
    int ascii;

    // convert in lower case
    printf (" Enter the Upper Case Character: ");
    scanf (" %c", &upr);
    ascii = upr + 32;
    printf (" %c character in Lower case is: %c", upr, ascii);

    // convert in upper case
    printf (" \n Enter the Lower Case Character: ");
    scanf (" %c", &lwr);
    ascii = lwr - 32;
    printf (" %c character in the Upper case is: %c", lwr, ascii);

    return 0;
}
```

Output

Enter the Upper Case Character: A
A character in Lower case is: a
Enter the Lower Case Character: z
z character in the Upper case is: Z