

1- Ask the user for two strings and concatenate them.
Print the result.

اطلب من المستخدم سلسلتين وقم بتسلسلهما. طباعة النتيجة.

Input

```
Enter the first string: Gammal
Enter the second string: Tech
```

Output

```
Concatenated String: Gammal Tech
```

Solution

```
// www.gammal.tech
#include <stdio.h>

int main() {
    char str1[20], str2[20], result[40];

    printf("Enter the first string: ");
    scanf("%s", str1);

    printf("Enter the second string: ");
    scanf("%s", str2);

    sprintf(result, "%s %s", str1, str2);

    printf("Concatenated String: %s\n", result);

    return 0;
}
```

2- Ask the user for two integers, format and print them in a sentence.

اطلب من المستخدم عددين صحيحين، وقم بتنسيقهما وطباعتهما في جملة.

Input

```
Enter the first integer: 60
Enter the second integer: 3
```

Output

```
The sum is 63, and the difference is 57.
```

Solution

```
// www.gammal.tech
#include <stdio.h>

int main() {
    int num1, num2;
    char sentence[50];

    printf("Enter the first integer: ");
    scanf("%d", &num1);

    printf("Enter the second integer: ");
    scanf("%d", &num2);

    sprintf(sentence, "The sum is %d, and the difference is %d.", num1 + num2, num1 - num2);

    printf("%s\n", sentence);

    return 0;
}
```

3- Ask the user for a sentence, extract two words, and print them.

اطلب من المستخدم جملة، واستخرج كلمتين، ثم اطبعهما.

Input

```
Enter a sentence: Learning C Programing
```

Output

```
First Word: Learning
Second Word: C
```

Solution

```
// www.gammal.tech

#include <stdio.h>

int main() {
    char sentence[100], word1[20], word2[20];

    printf("Enter a sentence: ");
    fgets(sentence, sizeof(sentence), stdin);

    sscanf(sentence, "%s %s", word1, word2);

    printf("First Word: %s\nSecond Word: %s\n", word1, word2);

    return 0;
}
```

4- Ask the user for a username and a domain, then create and print a complete email address.

اطلب من المستخدم اسم مستخدم وdomain، ثم قم بإنشاء وطباعة عنوان بريد إلكتروني كاملاً.

Input

```
Enter your username: john
Enter your domain: example.com
```

Output

```
Email Address: john@example.com
```

Solution

```

// www.gammal.tech

#include <stdio.h>

int main() {
    char username[30], domain[30], email[60];

    printf("Enter your username: ");
    scanf("%s", username);

    printf("Enter your domain: ");
    scanf("%s", domain);

    sprintf(email, "%s@%s", username, domain);

    printf("Email Address: %s\n", email);

    return 0;
}
```

5- Ask the user for a string and reverse it. Print both the original and reversed strings.

اطلب من المستخدم سلسلة وقم بعكسها. طباعة كل من السلاسل الأصلية والمعكوسة.

Input

```
Enter a string: Gammal
```

Output

```
Original: Gammal
Reversed: lammaG
```

Solution

```
// www.gammal.tech

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

int main() {
    char original[30], reversed[30];

    printf("Enter a string: ");
    scanf("%s", original);

    int len = strlen(original);
    for (int i = 0; i < len; i++) {
        reversed[i] = original[len - i - 1];
    }
    reversed[len] = '\0';

    printf("Original: %s\nReversed: %s\n", original, reversed);

    return 0;
}
```

6- Ask the user for a floating-point number, format it, and print it with two decimal places.

اطلب من المستخدم رقم floating-point، وقم بتنسيقه وطباعته with two decimal places

Input

```
Enter a floating-point number: 7.369
```

Output

```
Formatted Value: 7.37
```

Solution

```

// www.gammal.tech

#include <stdio.h>

int main() {
    float value;
    char formatted[20];

    printf("Enter a floating-point number: ");
    scanf("%f", &value);

    sprintf(formatted, "%.2f", value);

    printf("Formatted Value: %s\n", formatted);

    return 0;
}
```

7- Ask the user for their first name and last name, then create and print their full name.

اطلب من المستخدم اسمه الأول واسم العائلة، ثم قم بإنشاء اسمه بالكامل وطباعته.

Input

```
Enter your first name: Gammal
Enter your last name: Tech
```

Output

```
Full Name: Gammal Tech
```

Solution

```

// www.gammal.tech

#include <stdio.h>

int main() {
    char firstName[30], lastName[30], fullName[60];

    printf("Enter your first name: ");
    scanf("%s", firstName);

    printf("Enter your last name: ");
    scanf("%s", lastName);

    sprintf(fullName, "%s %s", firstName, lastName);

    printf("Full Name: %s\n", fullName);

    return 0;
}
```

8- Ask the user for a word and a character to replace in that word. Replace the specified character with an asterisk (*) and print the modified word.

اطلب من المستخدم كلمة وحرف ليحل محلها في تلك الكلمة. استبدل الحرف المحدد بعلامة النجمة (*) واطبع الكلمة المعدلة.

Input

```
Enter a word: Word
Enter a character to replace: r
```

Output

```
Modified Word: Wo*d
```

Solution

```

// www.gammal.tech

#include <stdio.h>

int main() {
    char word[30], targetChar;

    printf("Enter a word: ");
    scanf("%s", word);

    printf("Enter a character to replace: ");
    scanf(" %c", &targetChar);

    for (int i = 0; word[i] != '\0'; i++) {
        if (word[i] == targetChar) {
            word[i] = '*';
        }
    }

    printf("Modified Word: %s\n", word);

    return 0;
}
```

9- Ask the user for their street, city, and country, then create and print their complete address.

اسأل المستخدم عن الشارع والمدينة والبلد، ثم قم بإنشاء عنوانه الكامل وطباعته.

Input

```
Enter your street: MainStreet
Enter your city: BigCity
Enter your country: WonderLand
```

Output

```
Complete Address: MainStreet, BigCity, WonderLand
```


Solution

```

// www.gammal.tech

#include <stdio.h>

int main() {
    char street[50], city[30], country[30], address[150];

    printf("Enter your street: ");
    scanf("%s", street);

    printf("Enter your city: ");
    scanf("%s", city);

    printf("Enter your country: ");
    scanf("%s", country);

    sprintf(address, "%s, %s, %s", street, city, country);

    printf("Complete Address: %s\n", address);

    return 0;
}
```

10- Ask the user for a protocol, domain, and path, then create and print a complete URL.

اطلب من المستخدم البروتوكول والمجال والمسار، ثم أنشئ عنوان URL كاملاً واطبعه.

Input

```
Enter the protocol (http/https): https
Enter the domain: www.example.com
Enter the path: page
```

Output

```
Complete URL: https://www.example.com/page
```

Solution



```
// www.gammal.tech

#include <stdio.h>

int main() {
    char protocol[10], domain[50], path[50], url[100];

    printf("Enter the protocol (http/https): ");
    scanf("%s", protocol);

    printf("Enter the domain: ");
    scanf("%s", domain);

    printf("Enter the path: ");
    scanf("%s", path);

    sprintf(url, "%s://%s/%s", protocol, domain, path);

    printf("Complete URL: %s\n", url);

    return 0;
}
```
