
1- Extracting a Number from a String

استخراج رقم من سلسلة

Output

```
60
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char address[] = "60 Gammal Tech";
    int x;

    sscanf(address, "%d", &x);

    printf("%d\n", x);
    return 0;
}
```

2- Extracting a Negative Number from a String

استخراج رقم سالب من سلسلة

Output

```
-87
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char address[] = "-87 Negative Avenue";
    int x;

    sscanf(address, "%d", &x);

    printf("%d\n", x);
    return 0;
}
```

3- Extracting a Floating-Point Number from a String

استخراج رقم Floating-Point من سلسلة

Output

```
3.14
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char data[] = "3.14 Pi Street";
    float y;

    sscanf(data, "%f", &y);

    printf("%.2f\n", y);
    return 0;
}
```

4- Extracting Multiple Numbers from a String

استخراج أرقام متعددة من سلسلة

Output

```
First Number: 25
Second Number: 42
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char info[] = "25 42 Multiple Numbers";
    int a, b;

    sscanf(info, "%d %d", &a, &b);

    printf("First Number: %d\nSecond Number: %d\n", a, b);
    return 0;
}
```

5- Extracting Hexadecimal Number from a String

استخراج رقم سداسي عشري من سلسلة

Output

```
Hexadecimal Value: 1a3
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char hexString[] = "1A3 Hexadecimal Value";
    int hexValue;

    sscanf(hexString, "%x", &hexValue);

    printf("Hexadecimal Value: %x\n", hexValue);
    return 0;
}
```

6- Extracting Octal Number from a String

استخراج الرقم الثماني من سلسلة

Output

```
Octal Value: 456
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char octalString[] = "456 Octal Value";
    int octalValue;

    sscanf(octalString, "%o", &octalValue);

    printf("Octal Value: %o\n", octalValue);
    return 0;
}
```

7- Extracting Multiple Numbers with Different Formats from this string "123 45.67 Multiple Formats"

استخراج أرقام متعددة بتنسيقات مختلفة من هذه السلسلة "123 45.67 Multiple Formats"

Output

```
Integer Value: 123
Float Value: 45.67
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char mixedData[] = "123 45.67 Multiple Formats";
    int intValue;
    float floatValue;

    sscanf(mixedData, "%d %f", &intValue, &floatValue);

    printf("Integer Value: %d\nFloat Value: %.2f\n", intValue, floatValue);
    return 0;
}
```

8- Extracting Numbers with Different Delimiters from this string "10,20,30 Numbers with Commas"

استخراج الأرقام بمحددات مختلفة من هذه السلسلة "Numbers 10,20,30 with Commas"

Output

```
Numbers: 10, 20, 30
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char delimitedData[] = "10,20,30 Numbers with Commas";
    int num1, num2, num3;

    sscanf(delimitedData, "%d,%d,%d", &num1, &num2, &num3);

    printf("Numbers: %d, %d, %d\n", num1, num2, num3);
    return 0;
}
```

9- Extracting Numbers with Mixed Delimiters from this string "50:75-100 Mixed Delimiters"

استخراج الأرقام ذات المحددات المختلطة من هذه السلسلة "50:75-100 Mixed Delimiters"

Output

```
Numbers: 50, 75, 100
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char mixedDelimiters[] = "50:75-100 Mixed Delimiters";
    int num1, num2, num3;

    sscanf(mixedDelimiters, "%d:%d-%d", &num1, &num2, &num3);

    printf("Numbers: %d, %d, %d\n", num1, num2, num3);
    return 0;
}
```

10- Extracting Numbers with Spaces from this string "15 30 45 Spaced Numbers"

استخراج الأرقام مع المسافات من هذه السلسلة

Output

```
Numbers: 15, 30, 45
```

Solution

```c
// www.gammal.tech

#include <stdio.h>

int main() {
    char spacedNumbers[] = "15 30 45 Spaced Numbers";
    int num1, num2, num3;

    sscanf(spacedNumbers, "%d %d %d", &num1, &num2, &num3);

    printf("Numbers: %d, %d, %d\n", num1, num2, num3);
    return 0;
}
```
