

```
gcc.c x
1  #include <stdio.h>
2
3  int main()
4  {
5      int intValue;
6      char charValue;
7      float floatValue;
8
9      printf("Enter an integer: ");
10     scanf("%d", &intValue);
11
12     printf("Enter a character: ");
13     scanf(" %c", &charValue);
14
15     printf("Enter a float value: ");
16     scanf("%f", &floatValue);
17
18
19     printf("Integer: %d\n", intValue);
20     printf("Character: %c\n", charValue);
21     printf("Float: %.2f\n", floatValue);
22
23     return 0;
24 }
```

Administrator: C:\Windows\System32\cmd.exe

C:\Users\Abo Samra\Desktop>gcc gcc.c

C:\Users\Abo Samra\Desktop>a.exe

Enter an integer: 5

Enter a character: a

Enter a float value: 3.14

Integer: 5

Character: a

Float: 3.14

C:\Users\Abo Samra\Desktop>


```

1  #include <stdio.h>
2
3  int main()
4  {
5      float num1, num2, temp;
6
7      printf("Enter the first number: ");
8      scanf("%f", &num1);
9      printf("Enter the second number: ");
10     scanf("%f", &num2);
11
12
13     printf("Number 1 = %.2f\n", num1);
14     printf("Number 2 = %.2f\n", num2);
15
16     temp = num1;
17     num1 = num2;
18     num2 = temp;
19
20     printf("\nAfter swapping:\n");
21     printf("Number 1 = %.2f\n", num1);
22     printf("Number 2 = %.2f\n", num2);
23
24     return 0;
25 }

```

Administrator: C:\Windows\System32\cmd.exe

C:\Users\Abo Samra\Desktop>gcc stark.c

C:\Users\Abo Samra\Desktop>a.exe

Enter the first number: 5

Enter the second number: 7

Number 1 = 5.00

Number 2 = 7.00

After swapping:

Number 1 = 7.00

Number 2 = 5.00

C:\Users\Abo Samra\Desktop>


```

1  #include <stdio.h>
2
3  int main()
4  {
5      char ch;
6
7      printf("Enter a character: ");
8      scanf("%c", &ch);
9
10     printf("\nCharacter entered: %c\n", ch);
11     printf("ASCII code: %d\n", ch);
12
13     printf("Previous character: %c (ASCII: %d)\n", ch - 1, ch - 1);
14     printf("Next character: %c (ASCII: %d)\n", ch + 1, ch + 1);
15
16     return 0;
17 }

```

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Administrator: C:\Windows\System32\cmd.exe

C:\Users\Abo Samra\Desktop>gcc stark2.c

C:\Users\Abo Samra\Desktop>a.exe
Enter a character: a

Character entered: a
ASCII code: 97
Previous character: ` (ASCII: 96)
Next character: b (ASCII: 98)

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gcc.c x stark.c x stark2.c x stark3.c x

```
8
9     printf("Enter the first number: ");
10    scanf("%f", &num1);
11
12    printf("Enter the second number: ");
13    scanf("%f", &num2);
14
15
16    sum = num1 + num2;
17    difference = num1 - num2;
18    product = num1 * num2;
19
20
21    if (num2 != 0) {
22        quotient = num1 / num2;
23    } else {
24        printf("\nDivision by zero is not allowed.\n");
25        quotient = 0; // Assigning 0 as a placeholder
26    }
27
28
29    printf("\nResults:\n");
30    printf("Addition: %.2f\n", sum);
31    printf("Subtraction: %.2f\n", difference);
32    printf("Multiplication: %.2f\n", product);
33
34    if (num2 != 0) {
35        printf("Division: %.2f\n", quotient);
36    }
37
38    return 0;
39 }
```

C:\Windows\System32\cmd.exe

C:\Users\Abo Samra\Desktop>gcc stark3.c

C:\Users\Abo Samra\Desktop>a.exe

Enter the first number: 7

Enter the second number: 5

Results:

Addition: 12.00

Subtraction: 2.00

Multiplication: 35.00

Division: 1.40

C:\Users\Abo Samra\Desktop>

C source file

length: 800 lines: 39

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