

Write a program that asks the user to enter a number and then calculates and prints its factorial.

```
#include <stdio.h>

int main() {
    int number, factorial = 1;

    printf("Enter a number: ");
    scanf("%d", &number);

    if (number < 0) {
        printf("Factorial is not defined for negative numbers.\n");
    } else {
        for (int i = 1; i <= number; i++) {
            factorial *= i;
        }

        printf("The factorial of %d is %d\n", number, factorial);
    }

    return 0;
}
```

Explanation:

- When you run this program, it will prompt the user to enter a number.
- After the user inputs the number, the program will calculate its factorial using a for loop.
- If the number is negative, it will display a message stating that factorial is not defined for negative numbers.
- Otherwise, it will display the calculated factorial.
- In this program, we declare two variables number and factorial of type int.

Write a program that asks the user to enter a number and then calculates and prints its factorial.

- We use printf() to display the prompt message and scanf() to read the user input.
- The factorial is calculated using a for loop that iterates from 1 to the given number and multiplies each number to the factorial variable.
- Finally, we use printf() to display the number and its factorial.
- If the number is negative, we display a message indicating that the factorial is not defined.

Output:



```
Enter a number: 4
The factorial of 4 is 24
```

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Write a program that asks the user to enter a number and then calculates and prints its factorial.

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