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2.

```
#include <stdio.h>
int factorial (int n) {
    if (n == 0 || n == 1)
        return 1;
    else
        return n * factorial (n-1);
}
int main () {
    int num;
    printf ("Enter a number :");
    scanf ("%d", &num);
    printf ("Factorial of %d = %d \n", num, factorial (num));
    return 0;
}
```

OUTPUT :-

Enter a number : 22

Factorial of 22 = -522715136

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main.c

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```c
#include <stdio.h>

int factorial(int n) {
    if (n == 0 || n == 1)
        return 1;
    else
        return n * factorial(n - 1);
}

int main() {
    int num;

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

    printf("Factorial of %d = %d\n", num, factorial(num));

    return 0;
}
```

Output | Clear

```
Enter a number: 22
Factorial of 22 = -522715136


=== Code Execution Successful ===
```

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