



C Program to Calculate Power of a Number



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In this tutorial, we will write a program to calculate the power of a number. The C language has a function called “pow()” which is used to calculate the power of a specific number. But in this tutorial, we will use our custom coding skills to calculate the power of a number.

Let's say we have to calculate the value of 2^5 which is 32.

So now how can we achieve that? Let's see!

Using Loops:

If we use a loop which runs for 5 times where value starts from 1 and the value updates itself each time the loop is completed then we will get our preferred result. We can use various loops like for loops, while loops etc.

So let's dive right into the code:

We will be using “for loop” for this tutorial and we will make 3 variables **m**, **n**, and **val** as **int** type. The value of “m” will be the base number and the value of “n” will be the power. We will use the “val” variable to update the numbers after each loop.

Note: To calculate a bigger number we can use “long long int val =1” and to print the result we will print “%lld” instead of “%d” so our code can be error free.

```
#include<stdio.h>

int main(){
    // Here m is The Base Number and n is The Power
    int m =2;
    int n =5;
    long long int val =1; // We used "long long int val" to calculate bigger numbers

    for (int i = 0; i < n; i++)
    {
        val = val * m; // Updating the number
    }

    printf("The value of %d to the power %d is %lld", m, n, val); // Here %lld is the long long value
}
```

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