**Day-23 of 101** days **coding challenge**

* **Recursion:**
* A function calls itself to make program smaller till the condition satisfied.
* Example:

Code:

// recursivly calling function to find the power

#include<iostream>

using namespace std;

int power(int n, int p)

{

if(p == 0){ // defined the base condition so that function calling can be stoped

return 1;

}

// recursivly calling the function

return n \* power(n, p-1);

}

int main()

{

int n , p;

cout<<"Enter the value and value of the power"<<endl;

cin>>n>>p;

// calling the function

int result = power(n, p);

cout<<"Power value is:"<<result<<endl;

return 0;

}

Output:

