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;

```cpp
        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:

```
Enter the value and value of the power
5
4
Power value is:625

--------------------------------
Process exited after 4.779 seconds with return value 0
Press any key to continue . . .
```