

SUM-OF-SQUARES.CPP source

```
/*  
 * Program to display the sum of squares of N natural numbers  
 * without using equations  
 */  
  
#include <iostream>  
using namespace std;  
  
int main() {  
  
    int n, sum_of_sqr = 0;  
  
    cout<<"Enter the number:";  
    cin>>n;  
  
    //the following code will be executed for all values of i  
    //from 1 to n  
    //ie, sum_of_sqr+=1*1; sum_of_sqr+=2*2; ... sum_of_sqr+=n*n;  
    for(int i=1;i<=n;i++) {  
        sum_of_sqr+=i*i;  
    }  
  
    cout<<"Sum of squares of "<<n<<" natural numbers:"<<sum_of_sqr<<endl;  
  
    return 0;  
}
```

SUM-OF-SQUARES.CPP output

Enter the number:10

Sum of squares of 10 natural numbers:385