## SUM-OF-SQUARES.CPP source

```
01: /*
02: * Program to display the sum of squares of N natural numbers
03: * without using equations
04: */
05:
06: #include <iostream>
07: using namespace std;
08:
09: int main() {
10:
     int n, sum_of_sqrs = 0;
11:
12:
13: cout<<"Enter the number:";</pre>
14: cin>>n;
15:
      //the following code will be executed for all values of i
16:
    //from 1 to n
17:
18:
     //ie, sum_of_sqrs+=1*1; sum_of_sqrs+=2*2; ... sum_of_sqrs+=n*n;
19:
     for(int i=1;i<=n;i++) {</pre>
      sum_of_sqrs+=i*i;
}
20:
21:
22:
     cout<<"Sum of squares of "<<n<<" natural numbers:"<<sum_of_sqrs<<endl;</pre>
23:
24:
25:
     return 0;
26:
27: }
28:
```

## SUM-OF-SQUARES.CPP output

```
1: Enter the number:10
2: Sum of squares of 10 natural numbers:385
3:
```