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Assignment6.cpp

~/11260

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```
1 /*
2 Assignment 6
3 Write a program to find the sum of squares of first n natural numbers using function
4 without parameter but with return type.
5 Name-Dev Sarode
6 Division-12
7 Roll no-11260
8 Date-18/03/2025
9 */
10 #include <iostream>
11 using namespace std;
12
13 int sumOfSquares(){
14     int n;
15     cout<<"Enter the value of n:";
16     cin>>n;
17
18     int sum=0;
19
20     for (int i=1; i<=n; ++i) {
21         sum += i * i;
22     }
23     return sum;
24 }
25
26 int main() {
27     int result=sumOfSquares();
28     cout<<"The sum of squares of the first n natural numbers is: "<<result<<endl;
29     return 0;
30 }
31
```

```
fe@pict-OptiPlex-3020:~/11260$ g++ Assignment6.cpp
```

```
fe@pict-OptiPlex-3020:~/11260$ ./a.out
```

```
Enter the value of n:5
```

```
The sum of squares of the first n natural numbers is: 55
```

```
fe@pict-OptiPlex-3020:~/11260$ ./a.out
```

```
Enter the value of n:12
```

```
The sum of squares of the first n natural numbers is: 650
```

```
fe@pict-OptiPlex-3020:~/11260$
```