

## Answer on Question #47629 - Engineering, Other

1. Draw the flowchart and write a c program that reads in a number n and then outputs the sign off the square from 1 to n

Ex. If n=3, output should be 14 because  $1^2+2^2+3^2=1+4+9=14$

### Solution.

```
#include <iostream>

using namespace std;

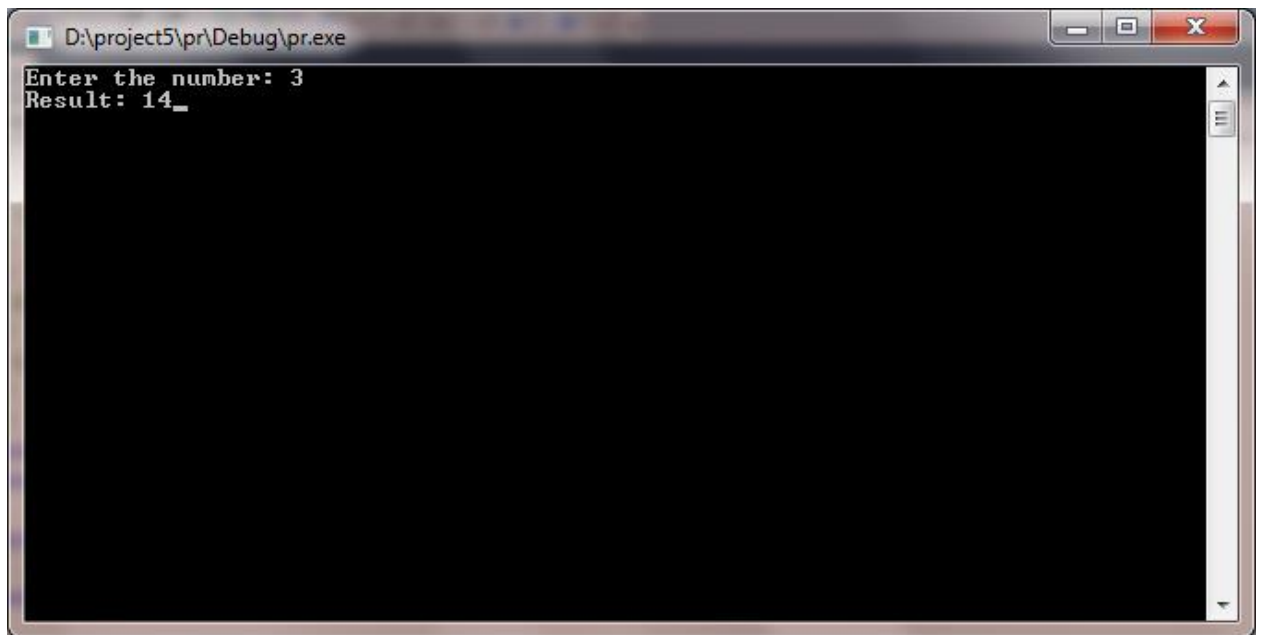
int main()
{
    int n=0;

    cout<<"Enter the number: ";
    cin>>n;

    int k=0;
    for(int i=1; i<=n; i++)
    {
        k+=powf(i,2);
    }

    cout<<"Result: "<<k;

    //Stop console
    cin.get();
    cin.get();
    return 0;
}
```



2. In a class of  $n$  students print the total no of female students and the total no of male students and at the end print the total no of total no of students in  $n$  class both males and females

### Solution

```
#include <iostream>
using namespace std;

const int N = 10;

class Student
{
    bool male;

public:
    void setMale(bool male)
    {
        this->male=male;
    }

    bool getMale()
    {
        return this->male;
    }
};

class Class
{
public:
    Student st[N];
};
```

```

int main()
{
    Class cs[15];

    cs[N].st[1].setMale(false);
    cs[N].st[5].setMale(false);

    int male=0, female=0;
    for(int i=0; i<N; i++)
    {
        if(cs[N].st[i].getMale())
        {
            male++;
        }
        else
        {
            female++;
        }
    }

    cout<<"The total no of female students: "<<female<<endl;
    cout<<"The total no of male students:"<<male<<endl;
    cout<<"The both males and females:"<<male+female<<endl;

    //Stop console
    cin.get();
    cin.get();
    return 0;
}

```

```

D:\project5\pr\Debug\pr.exe
The total no of female students: 2
The total no of male students:8
The both males and females:10

```

<https://www.assignmentexpert.com/>