

# Practical-1

## Code:

```
//program to calculate the sum of first n terms

#include <iostream>

#include <math.h>

#include <cstdlib>

using namespace std;

int main(int argc , char *argv[])          //taking input from the command line
{
    double y=0;                            //declaring variable for calculating sum
    cout << "Program to print the sum upto n terms if the series." << endl;
    for(int i=1 ; i<atoi(argv[1])+1 ; i++)
    {
        if(i%2==0)
        {
            y-=1/pow(i,i);
        }
        else                                //calculating the sum upto n terms
        {
            y+=1/pow(i,i);
        }
    }

    cout << "The sum upto " << argv[1] << " terms::" << y;    //printing the final result
    return 0;
}
```

## Output:

```

C:\ Command Prompt
Microsoft Windows [Version 10.0.19042.685]
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C:\Users\harsh>cd desktop

C:\Users\harsh\Desktop>g++ Practical.cpp -o Practical.exe

C:\Users\harsh\Desktop>Practical.exe 5
Program to print the sum upto n terms if the series.
The sum upto 5 terms::0.783451
C:\Users\harsh\Desktop>Practical.exe 1
Program to print the sum upto n terms if the series.
The sum upto 1 terms::1
C:\Users\harsh\Desktop>Practical.exe 10
Program to print the sum upto n terms if the series.
The sum upto 10 terms::0.783431
C:\Users\harsh\Desktop>Practical.exe 2
Program to print the sum upto n terms if the series.
The sum upto 2 terms::0.75
C:\Users\harsh\Desktop>_
```

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