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IDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

cos series.c

```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     float x,sum=1.0,term=1.0;
6     int n,sign=-1,fact=2,i;
7     //read the value of x
8     printf("enter the value of x(in radians):");
9     scanf("%f",&x);
10    //read the number of terms
11    printf("enter the number of terms:");
12    scanf("%d",&n);
13    //calculate the cosine series
14    for (i=1;i<=n;i++){
15        term*=sign*x/(fact*(fact-1));
16        sum+=term;
17        sign=-sign;
18        fact+=2;
19    }
20    //print the result
21    printf("the value of cos(%f)using %d terms is:%f\n",x,n,sum);
22    return 0;
23 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\hp\c\cos series.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.27s

Line: 23 Col: 2 Sel: 0 Lines: 23 Length: 535 Insert Done parsing in 0.031 seconds

C:\hp\c\cos series.exe

```
enter the value of x(in radians):0.785
enter the number of terms:5
the value of cos(0.785000)using 5 terms is:0.676394

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Process exited after 10.91 seconds with return value 0
Press any key to continue . . . |
```