```c
/*

Program to Find Value of sin(x) using Expansion Series Given Below:

            sin(x) = x - x3/3! + x5/5! - x7/7!........

*/


#include <stdio.h>

#include <math.h>


main()

{

    float base, pwr, sum, c=1, m=2, i=3, g, h;


    printf("\nEnter the base value: ");

    scanf("%f", &base);

    printf("\nEnter the power value: ");

    scanf("%f", &pwr);


    sum = base;

ab:

    m = m * i;

    h = pow(-1, c);

    g = pow(base, i);


    sum = sum + (h * g) / m;

    i = i + 2;

    c++;

    m = m * (i - 1);
```

```
        if (i <= pwr)

            goto ab;


        printf("\n\nSum = %f", sum);

        getch();

}
```