

PROGRAM

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main(){
    float temp,angle,sum=0.0;
    int i,j,n,a=1,fact,sign=1;
    clrscr();
    printf("Enter the angle of sine (in radians) : ");
    scanf("%f",&angle);
    printf("Enter the number of terms upto which you want to add : ");
    scanf("%d",&n);
    for(i=1; i<=n; i++){
        a=(2*i-1);
        fact =1;
        for(j=1; j<=a; j++){
            fact =fact*j;
        }
        temp = (pow(angle,a)/fact);
        sum = sum + sign*temp;
        sign = -1*sign;
    }
    printf("Sum of sine series upto %d terms is %.5f \n",n,sum);

    getch();
    return 0;
}
```

OUTPUT

```
Enter the angle of sine (in radians) : 2
Enter the number of terms upto which you want to add : 3
Sum of sine series upto 3 terms is 0.93333
PS C:\TURBOC3\BIN\PROJECT\Assignment> █
```