

```

1  #include<stdio.h>
2  int main()
3  {
4      int i,j,a;
5      double x,d,sign1=1,sign2=1,sin=0,tan=0,cos=0,pow,fact;
6
7      scanf("%lf",&d);
8
9      a=d/360;
10     d=d-a*360;
11     x=d*(3.1416/180);
12
13     for(i=1;i<=25;i+=2)
14     {
15         fact=1;
16         pow=1;
17         for(j=1;j<=i;j++)
18         {
19             fact=fact*j;
20             pow=pow*x;
21         }
22         sin=sin+(pow/fact)*sign1;
23         sign1=sign1*-1;
24     }
25
26
27
28     for(i=0;i<=25;i+=2)
29     {
30         fact=1;
31         pow=1;
32         for(j=1;j<=i;j++)
33         {
34             fact=fact*j;
35             pow=pow*x;
36         }
37         cos=cos+(pow/fact)*sign2;
38         sign2=sign2*-1;
39     }
40
41
42     tan=sin/cos;
43     printf("%.2lf\n ",tan);
44 }

```