

```

11     for(int i=1; i<=n; i++){
12         j=x*j;
13     }
14     }
15     return j;
16 }
17 double sina(double x){
18     double bolme;
19     double sonuc=0;
20     for(int n=0; n<=6; n++){
21         bolme=powa(x,2*n+1)*powa((-1),n);
22         sonuc=bolme+sonuc;
23     }
24     return sonuc;
25 }
26 int main(){
27     int derece;
28     double radyan,sonuc;
29     printf("Sinusu hesaplanacak aci giriniz.\n");
30     scanf("%d",&derece);
31     radyan=derece*3.1415926535/180.0;
32     sonuc=sina(radyan);
33     printf("Sonuc=%lf\n",sonuc);
34 }

```

```

madtrack@ubuntu:~/Desktop/Taylor
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
36
Sonuc=0.500000
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
31
Sonuc=0.515038
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
32
Sonuc=0.529919
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
33
Sonuc=0.544039
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
34
Sonuc=0.559193
madtrack@ubuntu:~/Desktop/Taylor$ ./taylor
Sinusu hesaplanacak aci giriniz.
35
Sonuc=0.573576
madtrack@ubuntu:~/Desktop/Taylor$

```

```

taylor.c
1  #include <stdio.h>
2  double factorial(int n){
3      double j=1;
4      for(int i=1; i<=n; i++){
5          j=i*j;
6      }
7      return j;
8  }
9  double powa(double x,int n){
10     double j=1;
11     for(int i=1; i<=n; i++){
12         j=x*j;
13     }
14     return j;
15 }
16 }
17 double sina(double x){
18     double bolme;
19     double sonuc=0;
20     for(int n=0; n<=6; n++){
21         bolme=powa(x,2*n+1)*powa((-1),n)/factorial(2*n+1);
22         sonuc=bolme+sonuc;
23     }
24     return sonuc;
25 }
26 int main(){
27     int derece;
28     double radyan,sonuc;
29     printf("Sinusu hesaplanacak aci giriniz.\n");
30     scanf("%d",&derece);
31     radyan=derece*3.1415926535/180.0;
32     sonuc=sina(radyan);
33     printf("Sonuc=%lf\n",sonuc);
34 }
35

```