

Sin(x)

```
n=10
```

```
n = 10
```

```
x=90
```

```
x = 90
```

```
a=x*(pi/180);  
result=0
```

```
result = 0
```

```
for i=0:n-1  
    sum=(((-1)^i)/(factorial(2*i+1)))*(a^(2*i+1));  
    result=result+sum;  
end  
disp(result)
```

```
1
```

Cos(x)

```
n=input('number of terms:')
```

```
n = 10
```

```
x=input('angle:')
```

```
x = 0
```

```
b=x*(pi/180);  
result=0
```

```
result = 0
```

```
for i=0:n-1  
    sum=(((-1)^i)/(factorial(2*i)))*(b^(2*i));  
    result=result+sum;  
end  
disp(result)
```

```
0
```

Exponential(x)

```
x=input('value:')
```

```
x = 15
```

```
n=input('term:')
```

```
n = 100
```

```
result=0
```

```
result = 0
```

```
for i=0:n  
    sum=(x^i)/factorial(i);  
    result=result+sum;  
end  
disp(result)
```

```
3.2690e+06
```

```
exp(15)
```

```
ans = 3.2690e+06
```