#include<stdio.h>

long factorial(int n)

{

if(n==0)

return 1;

else

return(n\*factorial(n-1));

}

void main()

{

int n;

long fact;

printf("enter a number:");

scanf("%d",&n);

fact=factorial(n);

printf("factorial is %d",fact);

return 0;

}

**OUTPUT:**

**enter a number:4**

**factorial is 24**

**--------------------------------**

**Process exited after 3.585 seconds with return value 15**

**Press any key to continue . . .**