// Recursion : Funtion calls itself without the loop.

/\*

int sub(int x)

{

 int i,a;

 ............

 ............

 ...........

 i = sub(a); -> recursion follows here .. Function calls itself.

}

\*/

#include <stdio.h>

int fact(int); // takes int value as argument and returns int value

int main(void) {

 // your code goes here

 int no, ans;

 printf("Enter number : ");

 scanf("%d",&no);

 ans = fact(no);

 printf("fectorial is %d",ans);

 return 0;

}

int fact( int x)

{

 int f;

 if(x==0)

 return 1;

 else

 {

 f=x;

 f= x \*fact(x-1); // here the x is a number which is passed.

 return f;

 }

}