

```
// 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("factorial 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;
    }
}
```