

```
/*Items addressed in this example:
   factorial using iterative loop
*/
#include <stdio.h>
#include <stdlib.h>

double fact(int);

int main ()
{
    int i, n;
    double f;
    f = 1.0;
    printf("enter a number for the factorial: ");
    scanf("%d", &n);
    for( i= 1; i <= n; i++)
    {
        f *= (double) i;
    }
    printf("the factorial of %d is %.0f\n",n,f);
    system("pause");
    return 0;
}
```