

```
#include <stdio.h>
int main() { int num; long long factorial=1; printf("enter a positive integer: ");
scanf("%d",&num); if(num<0) { printf("error! factorial of a negative number doesn't exist"); }else{
int i=1; while(i<=num) { factorial*=i; i++; printf("factorial of %d=%lld\n",num,factorial); } } return 0;
}
```