







7) Write a program to compute factorial of a number using iterative approach.




1 //Write a program to compute factorial of a number using iterative approach.




```
1 #include <stdio.h>
2 int main (){
3     long long int n;
4     printf("please enter the number : ");
5     scanf("%lld",&n);
6     long long result=1;
7     for (long long int i=1;i<=n;i++){
8         result*=i;
9     }
10    printf("the answer is %lld",result);
11    return 0;
12 }
```




on the other side of the screen, I can see the following:




```
  ~/Documents/dslab  ./a.out  
please enter the number : 5  
the answer is 120
```





```
  ~/Documents/dslab  ./a.out  
please enter the number : 6  
the answer is 720
```

```
  ~/Documents/dslab  ./a.out  
please enter the number : 1  
the answer is 1
```

```
  ~/Documents/dslab  ./a.out  
please enter the number : 0  
the answer is 1
```

```
  ~/Documents/dslab  ./a.out  
please enter the number : 99  
the answer is 0
```

```
  ~/Documents/dslab  ./a.out  
please enter the number : 20  
the answer is 2432902008176640000
```

```
  ~/Documents/dslab  
```