

```
#Find factorial of a number
```

```
# Iterative method
```

```
def factorial(n):
```

```
    if n <= 1:
```

```
        return 1
```

```
    res = 1
```

```
    for i in range(2,n+1):
```

```
        res = res * i
```

```
    return res
```

```
# Recursion method
```

```
def factorial_recc(n):
```

```
    if n <= 1:
```

```
        return 1
```

```
    return n*factorial_recc(n-1)
```

```
if __name__ == "__main__":
```

```
    n = int(input("Enter the number: "))
```

```
    print(f"The factorial of {n} is {factorial(n)}")
```

```
    print(f"The factorial of {n} using recursion {factorial_recc(n)}")
```