

## LAB:05

### QUESTION:03

#### PROGRAM

##### INPUT

```
import cmath
n=int(input("enter number to calculate factorial"))
def fact1(n):
    fact = 1
    for i in range(1,n+1):
        fact=i*fact
    return fact
print("the factorial of",n,"is",fact1(n))
print("0 != 1")
i=0
fact = 1
while(i<=9):
    i+=1
    fact = i * fact
    print(i,"!=",fact)
```

##### OUTPUT

enter number to calculate factorial5

the factorial of 5 is 120

0 != 1

1 != 1

2 != 2

3 != 6

4 != 24

5 != 120

6 != 720

7 != 5040

8 != 40320

9 != 362880

10 != 3628800

Process finished with exit code 0