Experiment 6

6.1.2 Factorial of a number

ALGORITHM

Step 1: Start the program.

Step 2: Input integer n.

Step 3: Check if n < 0.
If yes, print "Factorial not defined" and go to Step 9.

Step 4: Initialize factorial = 1.

Step 5: Initialize loop counter i = 1.

Step 6: Repeat while i ≤ n:
factorial = factorial × i
i = i + 1

Step 7: Print the value of factorial.

Step 8: Go to Step 9.

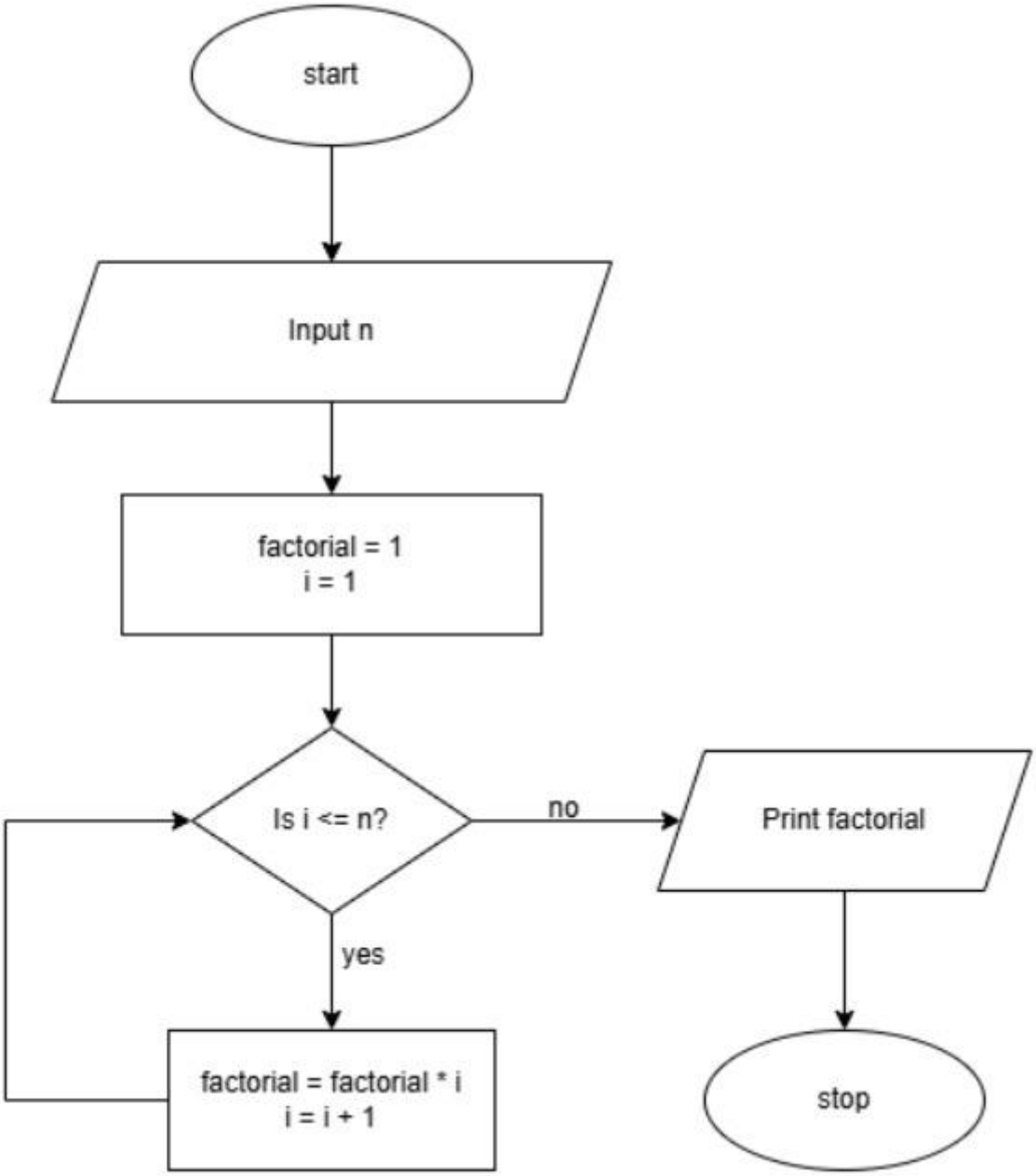
Step 9: End the program.

PYTHON CODE

```
n = int(input())


fact = 1


for i in range(1, n + 1):
        fact = fact * i


print(fact)
```

FLOWCHART

Experiment 6



Experiment 6

EXCECUTION