

6.1.2 factorial of a number

A] Algorithm

Step 1: Start

Step 2: Input number n

Step 3: Set fact = 1

Step 4: Repeat the following steps for i from 1 to n

- Multiply fact = fact \times i

Step 5: Print fact

Step 6: Stop

B] code

```
n = int(input())
```

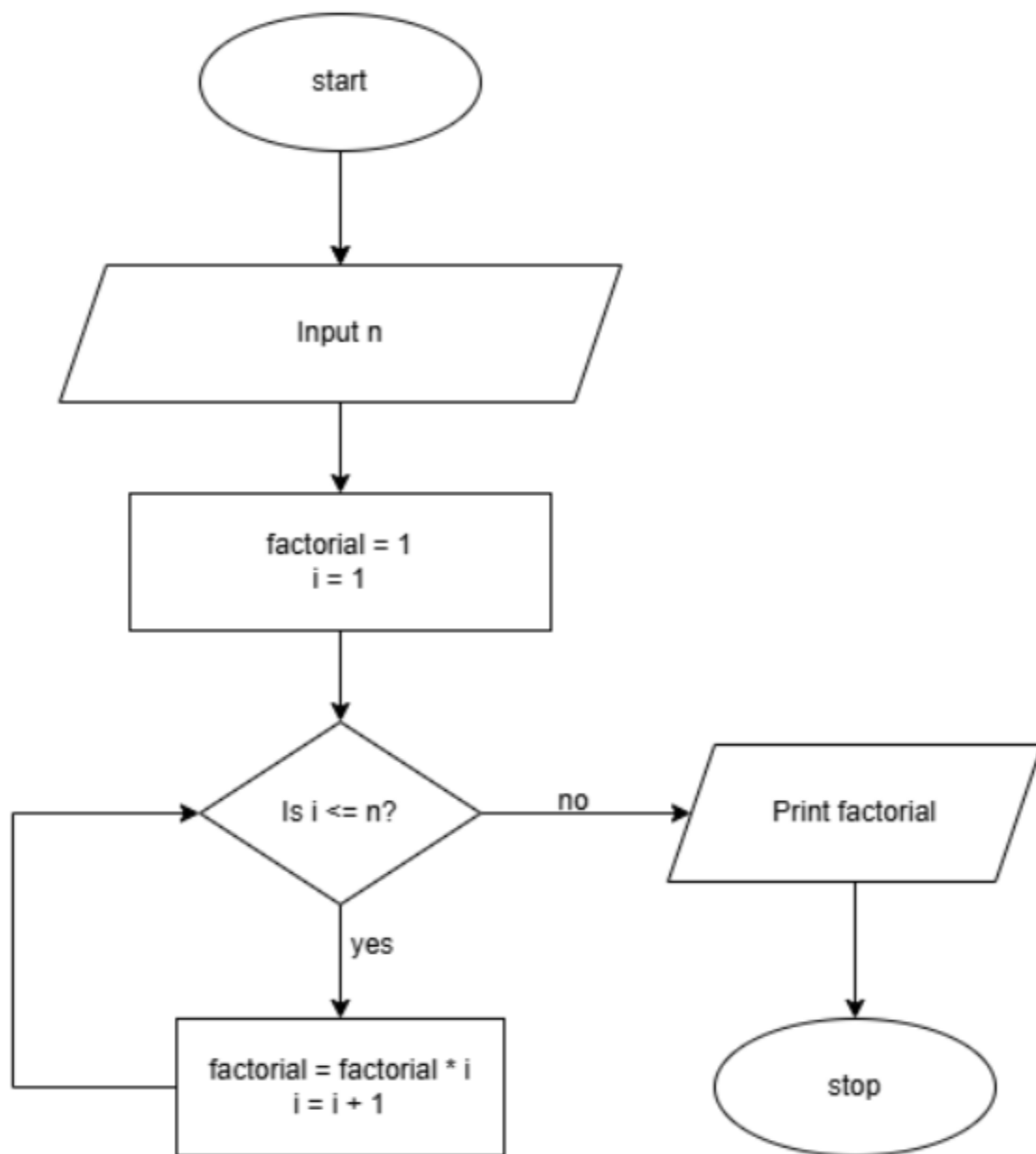
```
fact = 1
```

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

```
    fact = fact * i
```

```
print(fact)
```

C] flowchart



D] output

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6.1.2. Factorial of a Number 00:41

Write a Python program to calculate the factorial of a number n using loops.

Input Format:

- A single line containing an integer n .

Output Format:

- Print the factorial of the given integer n .

Sample Test Cases +

factorialN...

```
1 n = int(input())
2
3 fact = 1
4
5 for i in range(1, n + 1):
6     fact = fact * i
7
8 print(fact)
9
10
```

Terminal Test cases

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