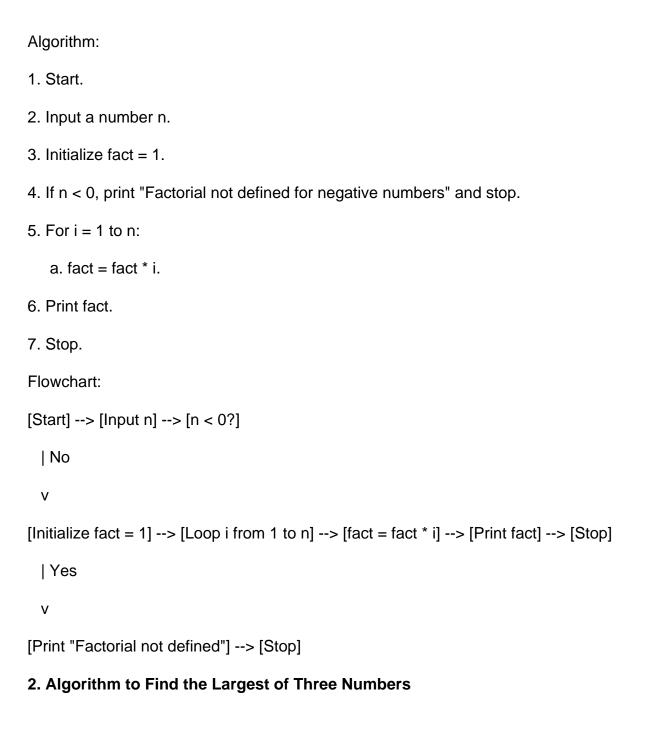
Algorithms and Flowcharts

1. Algorithm to Calculate Factorial of a Number



Algorithm:

- 1. Start.
- 2. Input three numbers a, b, c.
- 3. If a > b and a > c, print "a is the largest".

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4. Else if b > a and b > c, print "b is the largest".
5. Else, print "c is the largest".
6. Stop.
Flowchart:
[Start] --> [Input a, b, c] --> [a > b \text{ and } a > c?]
  | Yes
  ٧
[Print "a is the largest"] --> [Stop]
  | No
  ٧
[b > a \text{ and } b > c?]
  | Yes
  ٧
[Print "b is the largest"] --> [Stop]
  | No
  ٧
[Print "c is the largest"] --> [Stop]
3. Algorithm to Determine if a Number is Prime
Algorithm:
1. Start.
2. Input a number n.
3. If n \le 1, print "n is not prime" and stop.
4. For i = 2 to sqrt(n):
   a. If n % i == 0, print "n is not prime" and stop.
5. Print "n is prime".
6. Stop.
```

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Flowchart:

[Start] --> [Input n] --> [n <= 1?]

| Yes

v

[Print "n is not prime"] --> [Stop]

| No

v

[Loop i from 2 to sqrt(n)] --> [n % i == 0?]

| Yes

v

[Print "n is not prime"] --> [Stop]

| No

v

[Print "n is prime"] --> [Stop]
```