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FACTORIAL OF A NUMBER

Aim: Write a shell program to find the factorial of a number.

Algorithm:

- 1. Start
- Read the value of "N" from the user and store the value in variable N
- 3. Initialize variable "FACTORIAL" with value 1
- 4. Define a while loop till N is not equal to 1
 - a. FACTORIAL = FACTORIAL * N
 - b. N = N 1
- 5. Print the value of FACTORIAL
- 6. STOP

Program

```
#! /bin/bash
echo Program by Abhinav Rajesh 20219003
read -p "Enter the value of n: " N
FACTORIAL=1
while [ $N != 1 ]
do
    FACTORIAL=$((FACTORIAL * N))
    N=`expr $N - 1`
done
echo "Factorial: $FACTORIAL"
}
```

Output

Result:
Script to find factorial of a number is executed successfully
Remarks: