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#!/bin/sh
#Question:
# Write a shell program to accept a positive integer number from the terminal
      and calculate the factorial of the number. Factorial of a number n is
      defined as factorial(n) = n * (n-1) * . . .* 2 * 1 Given factorial(0) = 1
# Always write assumptions made, either as comment or as description
# and keep the rough work, do not erase it out
# accept a integer from the terminal
  echo "Enter a positive integer n:
  read n
       Its shell script, use \$ to get value of variable , And enclose in backquote ` ` to imply its command and not just a string
  echo "The $n factorial number is: "
  if [ $n -eq 1 ] # factorial(0) = 1
    then
      echo "1"
  else
                       # start with factorial=1
      factorial=1
                       # and from i = 1
      while [ $i -le $n ] # loop to multiply numbers from 1 till n to factorial
          factorial=` expr $factorial \* $i ` # escape * as \*
          i=` expr $i + 1
        done
      echo "$factorial"
  fi
# 0R
# using function definition in calculator , write factorial function and
      call factorial( number n )
  echo "The $n factorial number is: "
  echo " define factorial (x)
                    if (x \le 1) return (1);
                    return ( factorial(x-1) * x );
        factorial($n) " | bc
```