```
LOCAL fatorial(y)
BEGIN
    LOCAL i, res := 1;
    WHILE y > 1 DO
        res := res * y;
        y := y - 1;
    END;
    RETURN res;
END;

EXPORT Av01()
BEGIN
LOCAL x;
LOCAL n;
LOCAL i;
LOCAL sum := 0;
LOCAL mostra;

INPUT({
    {x, [0], {30, 20, 0}},
    {n, [0], {30, 20, 1}},
    {mostra, 1, {30, 20, 3}}},
      "Parâmetros",
      {"Expoente x:", "Limite n:", "Mostrar Processo"}

);

    PRINT();
    FOR i FROM 0 TO n DO
        sum := sum + (x ^ i)/(fatorial(i));
        IF mostra = 1 THEN
            PRINT(" Iteração: "+ i +", Somatório: " + sum);
        END;
    END;
    PRINT(sum);
END;
```