Spice deck for Power supply variation

*** MODEL Descriptions ***

*** NETLIST Description ***
2.5 supply voltage
M1 out in vdd vdd pmos W=0.9375u L=0.25u
M2 out in 0 0 nmos W=0.375u L=0.25u

cload out 0 10f

Vdd vdd 0 2.5
Vin in 0 2.5

.control
let powerSupply = 2.5
alter Vdd = powerSupply

   let voltageSupplyVariation = 0
   dowhile voltageSupplyVariation < 5
     dc Vin 0 2.5 0.01
     let powerSupply = powerSupply - 0.5
     alter Vdd = powerSupply
     let voltageSupplyVariation = voltageSupplyVariation + 1
   end

   plot dc1.out vs in dc2.out vs in dc3.out vs in dc4.out vs in dc5.out vs in xlabel "input voltage
[V]" ylabel "output voltage [V]" title "Inverter dc characteristics as a function of supply voltage"
*   quit
.endc

*** SIMULATION Commands ***
***.op
***.dc Vin 0 2.5 0.05 Vdd 0 2.5 0.5

*** .include tsmc_025um_model.mod ***
.LIB "tsmc_025um_model.mod" CMOS_MODELS
.end