P3. Write a program to compute a multiplication product,

$$
\text { Prod }=\prod_{i=1}^{N} x_{i}=x_{1} \cdot x_{2} \cdot x_{3} \cdots x_{N} .
$$

That is to ask a user for (1) a number of values to compute $N$, ( 2 ) get each value and multiply the value to the product for N times (do loop for input and multiplication), (3) report the calculation.

Use the P3 template. (P3_template.py. The template is only to ensure the exact display format and allows smooth auto-grading.)

Example 1:

Number of values:4
value:0.5
value:3
value:1.2
value:4
Product $=7.20$

Hint: c.f. summation:

Summation $\sum_{i=1}^{N} x_{i}$
(1) Set sum $=0$ before the loop
(2) Each iteration, sum $=$ sum $+x$
v.s. Product $\prod_{i=1}^{N} x_{i}$
v.s. $\operatorname{prod}=1$ before the loop;
v.s. each iteration prod $=\operatorname{prod}^{*} x$.

## Here is P3_template.py

```
Write a program to compute a multiplication product.
That is to ask a user for (1) a number of values to compute }N\mathrm{ ,
(2) get each value and multiply the value to the product for N times
(do loop for input and multiplication),
(3) report the calculation.
" " "
prod=1
# Write your code here
# Do not edit below this line
print('Product = {:,.2f}'.format(prod))
```

