```
import pandas as pd
import numpy as np


values= [['Kruthi',499],['Prathi',450],['Sahithi',495],
    ['Jashu',410],['Radhika',350],['Pranay',450]]
df = pd.DataFrame(values,columns=['Name','Total_Marks'])

df = df.assign(Percentage = lambda x: (x['Total_Marks'] /500 * 100))

print(df)
```

```
      Name  Total_Marks  Percentage
0   Kruthi          499        99.8
1   Prathi          450        90.0
2  Sahithi          495        99.0
3    Jashu          410        82.0
4  Radhika          350        70.0
5   Pranay          450        90.0
```

```
values_list = [[25, 2.5, 100], [20, 4.5, 75], [35, 5, 80],
      [45, 5.8, 90], [40, 6.8, 70], [45, 6.4, 90],
      [50, 2.6, 110]]

df = pd.DataFrame(values_list, columns=['F1', 'F2', 'F3'])
df = df.assign(Product=lambda x: (x['F1'] * x['F2'] * x['F3']))
print(df)
```

```
   F1   F2   F3  Product
0  25  2.5  100   6250.0
1  20  4.5   75   6750.0
2  35  5.0   80  14000.0
3  45  5.8   90  23490.0
4  40  6.8   70  19040.0
5  45  6.4   90  25920.0
6  50  2.6  110  14300.0
```

```
values_list = [[25, 2.5, 100], [20, 4.5, 75], [35, 5, 80],
      [45, 5.8, 90], [40, 6.8, 70], [45, 6.4, 90],
      [50, 2.6, 110]]

df = pd.DataFrame(values_list, columns=['F1', 'F2', 'F3'],
       index=['a', 'b', 'c', 'd', 'e', 'f', 'g'])

df = df.apply(lambda x: np.square(x) if x.name == 'd' else x, axis=1)
print(df)
```

```
      F1     F2      F3
a   25.0   2.50   100.0
b   20.0   4.50    75.0
c   35.0   5.00    80.0
```

```
d  2025.0  33.64  8100.0
e    40.0   6.80    70.0
f    45.0   6.40    90.0
g    50.0   2.60   110.0
```

```
values_list = [[25, 2.5, 100], [20, 4.5, 75], [35, 5, 80],
      [45, 5.8, 90], [40, 6.8, 70], [45, 6.4, 90],
      [50, 2.6, 110]]

df = pd.DataFrame(values_list, columns=['F1', 'F2', 'F3'],
        index=['a', 'b', 'c', 'd', 'e', 'f', 'g'])

df = df.apply(lambda x: np.square(x) if x.name in [
      'a', 'e', 'g'] else x, axis=1)
df
```

	F1	F2	F3
a	625.0	6.25	10000.0
b	20.0	4.50	75.0
c	35.0	5.00	80.0
d	45.0	5.80	90.0
e	1600.0	46.24	4900.0
f	45.0	6.40	90.0
g	2500.0	6.76	12100.0

```
values_list = [[25, 2.5, 100], [20, 4.5, 75], [35, 5, 80],
      [45, 5.8, 90], [40, 6.8, 70], [45, 6.4, 90],
      [50, 2.6, 110]]

df = pd.DataFrame(values_list, columns=['F1', 'F2', 'F3'],
        index=['a', 'b', 'c', 'd', 'e', 'f', 'g'])
df = df.apply(lambda x: np.square(x) if x.name in ['b', 'f'] else x, axis=1)

df = df.assign(Product=lambda x: (x['F1'] * x['F2'] * x['F3']))

df
```

	F1	F2	F3	Product
a	25.0	2.50	100.0	6250.0
c	35.0	5.00	80.0	14000.0
d	45.0	5.80	90.0	23490.0
e	40.0	6.80	70.0	19040.0
f	2025.0	40.96	8100.0	671846400.0
g	50.0	2.60	110.0	14300.0