In [5]:
```
import pandas as pd
df = pd.DataFrame([{'product_id':23, 'name':'computer', 'wholesale_price': 500,
        'retail_price':1000, 'sales':100},
        {'product_id':96, 'name':'Python Cours', 'wholesale_price': 35,
        'retail_price':75, 'sales':1000},
        {'product_id':97, 'name':'Pandas Cours', 'wholesale_price': 35,
        'retail_price':75, 'sales':500},
        {'product_id':15, 'name':'banana', 'wholesale_price': 0.5,
        'retail_price':1, 'sales':200},
        {'product_id':87, 'name':'sandwich', 'wholesale_price': 3,
        'retail_price':5, 'sales':300},
        ])
df
```

Out[5]:

	product_id	name	wholesale_price	retail_price	sales
0	23	computer	500.0	1000	100
1	96	Python Cours	35.0	75	1000
2	97	Pandas Cours	35.0	75	500
3	15	banana	0.5	1	200
4	87	sandwich	3.0	5	300

In [7]:
```
#calculer le revenue totale

((df['retail_price'] - df['wholesale_price']) * df['sales']).sum()
```

Out[7]:
```
110700.0
```

In [9]:
```
df['current_net'] = [50000.0, 40000.0, 20000.0, 100.0, 600.00]


df


df['after_15'] = df['current_net'] * 0.85
df
```

Out[9]:

	product_id	name	wholesale_price	retail_price	sales	current_net	after_15
0	23	computer	500.0	1000	100	50000.0	42500.0
1	96	Python Cours	35.0	75	1000	40000.0	34000.0
2	97	Pandas Cours	35.0	75	500	20000.0	17000.0
3	15	banana	0.5	1	200	100.0	85.0
4	87	sandwich	3.0	5	300	600.0	510.0

In [10]:
```
df['after_25'] = df['current_net'] * 0.75
df
```

Out[10]:

	product_id	name	wholesale_price	retail_price	sales	current_net	after_15	after_25
0	23	computer	500.0	1000	100	50000.0	42500.0	37500.0
1	96	Python Cours	35.0	75	1000	40000.0	34000.0	30000.0
2	97	Pandas Cours	35.0	75	500	20000.0	17000.0	15000.0
3	15	banana	0.5	1	200	100.0	85.0	75.0
4	87	sandwich	3.0	5	300	600.0	510.0	450.0

In [11]:
```
df['after_20'] = df['current_net'] * 0.8
df
```

Out[11]:

	product_id	name	wholesale_price	retail_price	sales	current_net	after_15	after_25	after
0	23	computer	500.0	1000	100	50000.0	42500.0	37500.0	4000
1	96	Python Cours	35.0	75	1000	40000.0	34000.0	30000.0	3200
2	97	Pandas Cours	35.0	75	500	20000.0	17000.0	15000.0	1600
3	15	banana	0.5	1	200	100.0	85.0	75.0	8
4	87	sandwich	3.0	5	300	600.0	510.0	450.0	48

In [13]:
```
df [['after_15','after_25', 'after_25']].sum()
```

Out[13]:
```
after_15    94095.0
after_25    83025.0
after_25    83025.0
dtype: float64
```

In [15]:
```
df['current_net'].sum()- df[['current_net','after_15','after_25', 'after_20']].sum
```

Out[15]:
```
current_net        0.0
after_15       16605.0
after_25       27675.0
after_20       22140.0
dtype: float64
```

In [ ]:
```

```