#### Entrée [1]:

#### Out[1]:

	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	Python Cours	35.0	75	500
3	15	Banana	0.5	1	200
4	87	Sandwich	3.0	5	300

#### Entrée [2]:

```
#calculer le revenue totale
((df['retail_price'] - df['wholesale_price']) * df['sales']).sum()
```

#### Out[2]:

110700.0

## Entrée [3]:

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

# Out[3]:

	product_id	name	wholesale_price	retail_price	sales	current_net
0	23	Computer	500.0	1000	100	50000.0
1	96	Python Cours	35.0	75	1000	40000.0
2	97	Python Cours	35.0	75	500	20000.0
3	15	Banana	0.5	1	200	100.0
4	87	Sandwich	3.0	5	300	600.0

# Entrée [4]:

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

# Entrée [5]:

df

## Out[5]:

	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	Python 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

## Entrée [6]:

```
df['after_25'] = df['current_net'] * 0.75
df
```

# Out[6]:

	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	Python 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

#### Entrée [7]:

```
df['after_20'] = df['current_net'] * 0.80
df
```

## Out[7]:

	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	Python 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
4								<b>•</b>

## Entrée [9]:

```
#choisir 4 aolonne ajouté
df[['current_net', 'after_15', 'after_25', 'after_20']]
```

## Out[9]:

	current_net	after_15	after_25	after_20
0	50000.0	42500.0	37500.0	40000.0
1	40000.0	34000.0	30000.0	32000.0
2	20000.0	17000.0	15000.0	16000.0
3	100.0	85.0	75.0	80.0
4	600.0	510.0	450.0	480.0

#### Entrée [11]:

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

# Out[11]:

## Entrée [ ]: