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Trusted | Python 3 (ipykernel)

Run Code

In [1]:
```
import pandas as pd
mydata={
'Temperature': [25, 26, 27, 28, 29, 30, 31, 32, 33, 34],
'Pressure': [1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010]
}
df=pd.DataFrame(mydata)
print(df)
```

```
   Temperature  Pressure
0           25      1001
1           26      1002
2           27      1003
3           28      1004
4           29      1005
5           30      1006
6           31      1007
7           32      1008
8           33      1009
9           34      1010
```

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Logout

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Trusted | Python 3 (ipykernel)

Run Code

In [2]:
```
df.to_csv('temp.csv')
```

In [4]:
```
pd.read_csv('temp.csv')
```

Out[4]:

| | Unnamed: 0 | Temperature | Pressure |
|---|---|---|---|
| **0** | 0 | 25 | 1001 |
| **1** | 1 | 26 | 1002 |
| **2** | 2 | 27 | 1003 |
| **3** | 3 | 28 | 1004 |
| **4** | 4 | 29 | 1005 |
| **5** | 5 | 30 | 1006 |
| **6** | 6 | 31 | 1007 |
| **7** | 7 | 32 | 1008 |
| **8** | 8 | 33 | 1009 |
| **9** | 9 | 34 | 1010 |

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Run Code

In [5]:
```
df.head(3)
```

Out[5]:

| | Temperature | Pressure |
|---|---|---|
| **0** | 25 | 1001 |
| **1** | 26 | 1002 |
| **2** | 27 | 1003 |

In [6]:
```
df.tail(3)
```

Out[6]:

| | Temperature | Pressure |
|---|---|---|
| **7** | 32 | 1008 |
| **8** | 33 | 1009 |
| **9** | 34 | 1010 |

In [7]:
```
df.describe()
```

Out[7]:

| | Temperature | Pressure |
|---|---|---|
| **count** | 10.00000 | 10.00000 |
| **mean** | 29.50000 | 1005.50000 |
| **std** | 3.02765 | 3.02765 |
| **min** | 25.00000 | 1001.00000 |
| **25%** | 27.25000 | 1003.25000 |
| **50%** | 29.50000 | 1005.50000 |

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Run Code

| | | |
|---|---|---|
| **count** | 10.00000 | 10.00000 |
| **mean** | 29.50000 | 1005.50000 |
| **std** | 3.02765 | 3.02765 |
| **min** | 25.00000 | 1001.00000 |
| **25%** | 27.25000 | 1003.25000 |
| **50%** | 29.50000 | 1005.50000 |
| **75%** | 31.75000 | 1007.75000 |
| **max** | 34.00000 | 1010.00000 |

In [8]:
```
df.shape
```

Out[8]:
```
(10, 2)
```

In [9]:
```
df.columns
```

Out[9]:
```
Index(['Temperature', 'Pressure'], dtype='object')
```

In [10]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 2 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   Temperature  10 non-null     int64
 1   Pressure     10 non-null     int64
dtypes: int64(2)
memory usage: 292.0 bytes
```

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Run Code

In [11]:
```
mark1 = pd.Series([80, 85, 90, 75, 95])
mark2 = pd.Series([70, 88, 92, 79, 85])

#addition
a=mark1+mark2
print("addition:\n",a)

#substraction
b=mark1-mark2
print("substraction:\n",b)

#multiplication
c=mark1*mark2
print("multiplication:\n",c)

#division
d=mark1/mark2
print("division:\n",d)
```

```
addition:
 0    150
1    173
2    182
3    154
4    180
dtype: int64
substraction:
 0    10
1    -3
2    -2
3    -4
4    10
```

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Run Code

```
dtype: int64
multiplication:
 0    5600
1    7480
2    8280
3    5925
4    8075
dtype: int64
division:
 0    1.142857
1    0.965909
2    0.978261
3    0.949367
4    1.117647
dtype: float64
```

In [12]:
```
student_info={
'Name' : ['Vaishu','Sakshi','Pranju','gomti','mansi',
'Pallavi','Ruchika','Saloni','Sahatsh','Tanishq'],
'Roll No.' : [15,34,12,32,43,13,67,45,9,78],
'Marks' : [87,78,79,89,87,60,88,68,79,80]
}
df=pd.DataFrame(student_info)
print(df)
```

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Run Code

| | Name | Roll No. | Marks |
|---|---|---|---|
| 0 | Vaishu | 15 | 87 |
| 1 | Sakshi | 34 | 78 |
| 2 | Pranju | 12 | 79 |
| 3 | gomti | 32 | 89 |
| 4 | mansi | 43 | 87 |
| 5 | Pallavi | 13 | 60 |
| 6 | Ruchika | 67 | 88 |
| 7 | Saloni | 45 | 68 |
| 8 | Sahatsh | 9 | 79 |
| 9 | Tanishq | 78 | 80 |

In [20]:
```
df.to_csv('student.csv')
```

In [21]:
```
pd.read_csv('student.csv')
```

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Run Code

Out[21]:

| | Unnamed: 0 | Name | Roll No. | Marks |
|---|---|---|---|---|
| 0 | 0 | Vaishu | 15 | 87 |
| 1 | 1 | Sakshi | 34 | 78 |
| 2 | 2 | Pranju | 12 | 79 |
| 3 | 3 | gomti | 32 | 89 |
| 4 | 4 | mansi | 43 | 87 |
| 5 | 5 | Pallavi | 13 | 60 |
| 6 | 6 | Ruchika | 67 | 88 |
| 7 | 7 | Saloni | 45 | 68 |
| 8 | 8 | Sahatsh | 9 | 79 |
| 9 | 9 | Tanishq | 78 | 80 |

In [22]:
```
df.head()
```

Out[22]:

| | Name | Roll No. | Marks |
|---|---|---|---|
| 0 | Vaishu | 15 | 87 |
| 1 | Sakshi | 34 | 78 |
| 2 | Pranju | 12 | 79 |
| 3 | gomti | 32 | 89 |
| 4 | mansi | 43 | 87 |

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Run Code

In [23]:
```
df.tail()
```

Out[23]:

| | Name | Roll No. | Marks |
|---|---|---|---|
| 5 | Pallavi | 13 | 60 |
| 6 | Ruchika | 67 | 88 |
| 7 | Saloni | 45 | 68 |
| 8 | Sahatsh | 9 | 79 |
| 9 | Tanishq | 78 | 80 |

In [24]:
```
print("Number of records:", df.shape[0])
print("Number of attributes:", df.shape[1])
```

```
Number of records: 10
Number of attributes: 3
```

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Run Code

In [25]:
```
# Minimum
minimum = df['Marks'].min()
print('Minimum:',minimum)

#Maximum
maximum = df['Marks'].max()
print('Maximum:',maximum)

#count
count = df['Marks'].shape[0]
print('Count:',count)

#mean
mean=df['Marks'].mean()
print('Mean:',mean)

#median
median=df['Marks'].median()
print('Median:',median)
```

```
Minimum: 60
Maximum: 89
Count: 10
Mean: 79.5
Median: 79.5
```