P 4113.0

Q 4104.0

R 3114.0

S 2115.0

dtype: float64

Attribute object sl1 object sl2

idnex(.index) : Index(['P', 'Q', 'R', 'S'], dtype='object') RangeIndex(start=0, stop=7, step=1)

index name(.index.name) None None

values(.values) [4570 4560 3460 2350] [ 321 432 532 1324 5343 123 421331]

data type(.dtype) : int64 int64

shape (.shape) : (4,) (7,)

No. of bytes (.nbytes) : 32 56

No. of dimensions (.ndim) : 1 1

Has NaNs? : False False

empty? (.empty) : False False

name (.name) None None

Enter number of areas you want in the series:3

Enter Area:100000

Enter Area:46000

Enter Area:320000

Smallest areas <bound method NDFrame.tail of 0 46000

1 100000

2 320000

dtype: object>

Largest areas <bound method NDFrame.head of 0 320000

1 100000

2 46000

dtype: object>

Roshan 85

Roman 90

Raygan 95

Rafthar 100

Romeo 110

Rohit 122

Romith 125

Raghav 130

Rakul 130

Rakshita 130

Ruthu 130

Rahul 145

Ram 150

Rajath 150

Rakshit 160

Raj 160

Ramesh 160

Ramith 160

Rancho 160

Suresh 160

dtype: int64

Lowest sales: Roshan 85

Roman 90

dtype: int64

Higest sales: Rancho 160

Suresh 160

dtype: int64

Sort by:

1.Values

2.Index

Enter option:1

A 1

B 2

C 3

D 4

E 5

F 6

G 7

H 8

I 9

J 10

dtype: int64

Sort by:

1.Values

2.Index

Enter option:2

J 10

I 9

H 8

G 7

F 6

E 5

D 4

C 3

B 2

A 1

dtype: int64

Roll No Percentage 1 Percentage 2 Percentage 3 Percentage 4 Percentage 5

0 1 99 86 71 77 71

1 2 78 96 74 82 81

2 3 72 89 77 88 75

3 4 94 99 92 78 82

4 5 84 99 81 93 98

5 6 77 80 77 94 93

Basic Arithmetic Operations with

1.Same Index

2.Different Index

Enter your choice:1

Enter the number of elements in the 2 series: 4

0 70

1 60

2 37

3 13

dtype: int64

0 71

1 49

2 71

3 32

dtype: int64

Addition:

0 141

1 109

2 108

3 45

dtype: int64

Subtraction:

0 -1

1 11

2 -34

3 -19

dtype: int64

Multiplication:

0 4970

1 2940

2 2627

3 416

dtype: int64

Division:

0 0.985915

1 1.224490

2 0.521127

3 0.406250

dtype: float64

Basic Arithmetic Operations with

1.Same Index

2.Different Index

Enter your choice:2

Enter the number of elements in the 2 series: 4

40 76

62 75

24 66

1 99

dtype: int64

80 92

24 52

84 74

72 58

dtype: int64

Addition:

1 NaN

24 118.0

40 NaN

62 NaN

72 NaN

80 NaN

84 NaN

dtype: float64

Subtraction:

1 NaN

24 14.0

40 NaN

62 NaN

72 NaN

80 NaN

84 NaN

dtype: float64

Multiplication:

1 NaN

24 3432.0

40 NaN

62 NaN

72 NaN

80 NaN

84 Nan

dtype: float64

Division:

1 NaN

24 1.269231

40 NaN

62 NaN

72 NaN

80 NaN

84 NaN

dtype: float64

Name Age Department Monthly Salary Profession

0 Sana 26 HR 80000 Manager

1 Sana 26 HR 80000 Manager

2 Payal 32 IT 200000 Manager

3 Vidhya 26 HR 67000 Assistant

4 Manal 40 IT 500000 Team Leader

0 HR

1 HR

2 IT

3 HR

4 IT

Name: Department, dtype: object

(ii) Name Payal

Age 32

Department IT

Monthly Salary 200000

Profession Manager

Name: 2, dtype: object

Index: RangeIndex(start=0, stop=5, step=1)

Columns: Index(['Name', 'Age', 'Department', 'Monthly Salary', 'Profession'], dtype='object')

Axes: [RangeIndex(start=0, stop=5, step=1), Index(['Name', 'Age', 'Department', 'Monthly Salary', 'Profession'], dtype='object')]

DataTypes: Name object

Age int64

Department object

Monthly Salary int64

Profession object

dtype: object

Size: 25

Shape: (5, 5)

Values: [['Sana' 26 'HR' 80000 'Manager']

['Sana' 26 'HR' 80000 'Manager']

['Payal' 32 'IT' 200000 'Manager']

['Vidhya' 34 'HR' 67000 'Assistant']

['Manal' 40 'IT' 500000 'Team Leader']]

Empty?: False

No.of Dimensions: 2

Transpose: 0 1 2 3 4

Name Sana Sana Payal Vidhya Manal

Age 26 26 32 34 40

Department HR HR IT HR IT

Monthly Salary 80000 80000 200000 67000 500000

Profession Manager Manager Manager Assistant Team Leader

2018 2019 2020 2021

Mumbai 972140 962249 148656 312800

Delhi 106542 903722 537373 511301

Kolkata 359796 542426 314857 409874

Chennai 340263 782890 484324 793500

Average Population Per Year: 2018 444685.25

2019 797821.75

2020 371302.50

2021 506868.75

dtype: float64

First Two Rows: 2018 2019 2020 2021

Mumbai 972140 962249 148656 312800

Delhi 106542 903722 537373 511301

Last Two Rows: 2018 2019 2020 2021

Kolkata 359796 542426 314857 409874

Chennai 340263 782890 484324 793500