```
Python 3.9.7 (default, Sep 16 2021, 16:59:28) [MSC v.1916 64 bit (AMD64)]
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IPython 7.29.0 -- An enhanced Interactive Python.

In [1]:

In [1]:          'C:/Users/ibs/Desktop/diabetes.py'      ='C:/Users/ibs/Desktop'
     Age  Gender Polyuria  ... Alopecia Obesity     class
0     40    Male       No  ...      Yes     Yes  Positive
1     58    Male       No  ...      Yes      No  Positive
2     41    Male      Yes  ...      Yes      No  Positive
3     45   homme       No  ...       No      No  Positive
4     60    Male      Yes  ...      Yes     Yes  Positive
..   ...     ...      ...  ...      ...     ...       ...
515   39  Female      Yes  ...       No      No  Positive
516   48  Female      Yes  ...       No      No  Positive
517   58  Female      Yes  ...       No     Yes  Positive
518   32  Female       No  ...      Yes      No  Negative
519   42    Male       No  ...       No      No  Negative

[520 rows x 18 columns]
```

Warning

Figures now render in the Plots pane by default. To make them also appear inline in the Console, uncheck "Mute Inline Plotting" under the Plots pane options menu.

```
 count    520.000000
mean      48.028846
std       12.151466
min       16.000000
25%       39.000000
50%       47.500000
75%       57.000000
max       90.000000
Name: Age, dtype: float64


count      520
unique       4
top       Male
freq       327
Name: Gender, dtype: object


count     520
unique      3
top        No
freq      262
Name: Polyuria, dtype: object


count     520
unique      2
top        No
freq      287
Name: Polydipsia, dtype: object


count     520
```

```
unique      2
top        No
freq      303
Name: sudden weight loss, dtype: object


count     520
unique      3
top       Yes
freq      304
Name: weakness, dtype: object


count     520
unique      3
top        No
freq      282
Name: Polyphagia, dtype: object


count     520
unique      3
top        No
freq      403
Name: Genital thrush, dtype: object


count     520
unique      4
top        No
freq      286
Name: visual blurring, dtype: object


count     520
unique      2
top        No
freq      267
Name: Itching, dtype: object


count     520
unique      2
top        No
freq      394
Name: Irritability, dtype: object


count     520
unique      5
top        No
freq      280
Name: delayed healing, dtype: object


count     520
unique      3
top        No
freq      296
Name: partial paresis, dtype: object


count     520
```

```
unique      2
top        No
freq      325
Name: muscle stiffness, dtype: object


count     520
unique      2
top        No
freq      432
Name: Obesity, dtype: object


count          520
unique           2
top       Positive
freq           320
Name: class, dtype: object


count     520
unique      4
top        No
freq      286
Name: visual blurring, dtype: object
Age                   0
Gender                0
Polyuria              0
Polydipsia            0
sudden weight loss    0
weakness              0
Polyphagia            0
Genital thrush        0
visual blurring       0
Itching               0
Irritability          0
delayed healing       0
partial paresis       0
muscle stiffness      0
Alopecia              0
Obesity               0
class                 0
dtype: int64
    Age  Gender Polyuria Polydipsia  ... muscle stiffness Alopecia Obesity     class
61   35  Female      Yes        Yes  ...              Yes       No      No  Positive

[1 rows x 17 columns]
 - "homme" n', nous le modefiants.
 - "Femme" n', nous le modefiants.
 - "Oui" n', nous le modefiants.
 - "oui" n', nous le modefiants.
 - "na" n', nous le modefiants.
 - "Nan" n', nous le modefiants.
 - "1" n', nous le modefiants.
 - "0" n', nous le modefiants.
 - "na" n', nous le modefiants.
 - "oui" n', nous le modefiants.
     Age  Gender Polyuria  ... Alopecia Obesity     class
0     40    Male       No  ...      Yes     Yes  Positive
1     58    Male       No  ...      Yes      No  Positive
2     41    Male      Yes  ...      Yes      No  Positive
3     45    Male       No  ...       No      No  Positive
4     60    Male      Yes  ...      Yes     Yes  Positive
```

```
..   ...     ...       ...  ...       ...     ...       ...
515   39  Female      Yes  ...       No      No  Positive
516   48  Female      Yes  ...       No      No  Positive
517   58  Female      Yes  ...       No     Yes  Positive
518   32  Female       No  ...      Yes      No  Negative
519   42    Male       No  ...       No      No  Negative

[519 rows x 17 columns]
     Age Gender  Polyuria  ...  Alopecia  Obesity  class
0     40      1         0  ...         1        1      1
1     58      1         0  ...         1        0      1
2     41      1         1  ...         1        0      1
3     45      1         0  ...         0        0      1
4     60      1         1  ...         1        1      1
..   ...    ...       ...  ...       ...      ...    ...
515   39      0         1  ...         0        0      1
516   48      0         1  ...         0        0      1
517   58      0         1  ...         0        1      1
518   32      0         0  ...         1        0      0
519   42      1         0  ...         0        0      0

[519 rows x 17 columns]
Traceback (most recent call last):

  File "C:\Users\ibs\Desktop\diabetes.py", line 349, in <module>
    scaler.fit(X_train)

  File "C:\Users\ibs\anaconda3\lib\site-packages\sklearn\preprocessing\_data.py", line
730, in fit
    return self.partial_fit(X, y, sample_weight)

  File "C:\Users\ibs\anaconda3\lib\site-packages\sklearn\preprocessing\_data.py", line
766, in partial_fit
    X = self._validate_data(X, accept_sparse=('csr', 'csc'),

  File "C:\Users\ibs\anaconda3\lib\site-packages\sklearn\base.py", line 421, in
_validate_data
    X = check_array(X, **check_params)

  File "C:\Users\ibs\anaconda3\lib\site-packages\sklearn\utils\validation.py", line 63,
in inner_f
    return f(*args, **kwargs)

  File "C:\Users\ibs\anaconda3\lib\site-packages\sklearn\utils\validation.py", line 694,
in check_array
    raise ValueError(

ValueError: Expected 2D array, got 1D array instead:
array=[45. 60. 43. 39. 38. 49. 53. 43. 72. 42. 60. 30. 45. 44. 40. 33. 54. 65.
 58. 38. 58. 68. 50. 67. 60. 65. 66. 38. 55. 34. 72. 31. 40. 61. 32. 35.
 38. 66. 26. 54. 47. 54. 42. 38. 57. 54. 61. 33. 28. 62. 55. 53. 60. 41.
 38. 43. 48. 90. 48. 44. 25. 48. 45. 39. 27. 39. 57. 16. 28. 54. 31. 35.
 55. 49. 43. 47. 57. 55. 35. 40. 64. 63. 70. 53. 40. 42. 53. 61. 51. 59.
 34. 35. 58. 45. 72. 43. 35. 60. 30. 38. 61. 44. 52. 46. 47. 57. 36. 60.
 40. 68. 55. 48. 40. 37. 46. 59. 46. 48. 30. 48. 45. 47. 37. 44. 48. 62.
 47. 48. 32. 39. 30. 47. 56. 27. 39. 36. 58. 36. 43. 35. 35. 51. 47. 44.
 37. 54. 63. 58. 40. 37. 64. 40. 38. 60. 32. 57. 50. 43. 67. 33. 40. 68.
 35. 44. 46. 42. 42. 37. 57. 47. 54. 45. 51. 67. 57. 61. 66. 30. 50. 62.
 70. 56. 32. 27. 85. 72. 42. 35. 38. 30. 66. 41. 53. 27. 57. 90. 51. 48.
 53. 50. 55. 58. 54. 54. 47. 35. 38. 65. 68. 38. 54. 45. 68. 49. 79. 55.
 72. 28. 55. 68. 45. 38. 72. 66. 39. 43. 28. 41. 45. 53. 67. 48. 69. 35.
 66. 47. 53. 50. 58. 44. 69. 38. 61. 48. 36. 68. 40. 40. 64. 38. 37. 34.
 50. 36. 30. 45. 28. 35. 41. 65. 56. 52. 38. 47. 45. 50. 40. 28. 47. 34.
```

```
 50. 45. 29. 48. 66. 69. 62. 35. 52. 30. 55. 54. 36. 40. 46. 43. 39. 35.
 27. 54. 67. 56. 49. 35. 42. 39. 48. 47. 46. 55. 45. 45. 28. 40. 53. 60.
 60. 57. 43. 53. 58. 30. 38. 40. 68. 62. 85. 55. 54. 35. 30. 59. 35. 50.
 40. 39. 35. 50. 50. 60. 53. 50. 43. 56. 30. 55. 58. 61. 54. 50. 55. 43.
 34. 52. 67. 47. 40. 59. 68. 35. 65. 43. 47. 55. 35. 58. 35. 53. 45. 54.
 40. 58. 30. 34. 70. 58. 48. 67. 30. 57. 48. 43. 60. 47. 39. 38. 48. 68.
 39. 48. 49. 46. 39. 69. 30. 50. 53. 35. 35. 46. 47. 50. 30. 45. 30. 43.
 28. 53. 35. 40. 72. 66. 55. 53. 72. 61. 39. 36. 43. 58. 64. 58. 48. 48.
 47.].
Reshape your data either using array.reshape(-1, 1) if your data has a single feature or
array.reshape(1, -1) if it contains a single sample.
```

In [2]: