In [1]:

```
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
```

In [2]:

```
datos = np.random.randint(0,100,(100,4))
datos
```

Out[2]:

```
array([[76, 67, 82, 52],
       [56, 15, 85, 39],
       [84, 29, 28, 95],
       [53, 39, 76, 21],
       [75, 13, 20, 86],
       [12, 81, 82, 86],
       [11,  4,  6, 21],
       [42,  7, 34, 93],
       [ 5, 71, 90, 48],
       [58, 60, 55, 66],
       [29, 80, 31, 68],
       [66, 91, 48, 70],
       [15, 96,  4, 24],
       [ 0, 93, 84, 11],
       [ 6, 23, 67, 88],
       [93,  2, 16, 70],
       [85, 39, 59, 49],
       [87,  4, 28, 86],
       [ 3, 68, 48, 89],
       [66, 18, 23,  2],
       [17, 85,  5, 78],
       [ 0,  1, 70, 69],
       [77, 18, 51, 94],
       [16,  6, 16, 53],
       [84, 60, 58, 45],
       [42, 52, 15, 35],
       [19, 40, 31, 45],
       [13, 35, 80, 47],
       [38, 59, 65, 24],
       [87,  4, 33, 46],
       [43, 65, 45, 64],
       [58, 14, 27, 36],
       [52, 46, 22, 59],
       [95, 61, 65, 82],
       [73, 39, 88,  8],
       [88, 75, 43, 88],
       [92, 82, 73, 52],
       [81, 16, 64,  5],
       [90, 43, 24,  8],
       [ 6, 88, 51, 40],
       [72, 24, 19,  6],
       [ 7, 44, 62, 83],
       [29, 43, 52, 84],
       [44, 55, 47, 25],
       [82, 86, 23, 68],
       [ 9, 16, 55, 46],
       [33,  8, 16, 20],
       [90, 17, 95, 10],
       [83, 44, 65, 20],
       [19, 57, 60, 10],
       [15, 33, 44, 94],
       [91, 64, 32, 66],
       [61, 33, 81, 50],
       [16,  0, 95, 70],
       [84, 75, 86, 34],
       [96, 54, 23, 71],
       [54, 57, 27, 70],
       [89, 36,  3, 85],
       [38, 77,  7, 73],
       [61, 47, 27, 58],
       [31, 46, 24, 60],
       [69, 72, 22, 58],
       [33, 13, 94,  5],
       [ 0, 91, 61, 36],
       [ 9,  0,  2, 94],
       [33, 94, 19,  6],
       [38,  2, 59, 88],
       [34, 31, 30, 12],
       [92, 11, 38, 13],
```

```
       [ 2, 23, 81, 90],

       [10, 42, 14, 44],
       [20, 76,  6, 53],
       [ 4, 81, 90, 46],
       [ 2, 60, 73, 29],
       [40, 44, 22, 59],
       [88, 50, 15, 32],
       [ 8, 40, 86, 12],
       [42, 18, 88,  1],
       [23, 29, 37, 98],
       [ 4, 19, 28, 53],
       [90, 78, 40, 18],
       [15, 26, 21, 62],
       [34, 63, 13, 34],
       [82, 66, 96, 52],
       [65,  1, 62, 96],
       [ 1, 70, 69, 10],
       [68, 17, 11, 50],
       [98, 29, 49, 58],
       [43, 38, 24, 86],
       [20, 81, 18, 87],
       [99, 41, 59,  9],
       [89,  2, 24,  7],
       [80, 23, 50, 59],
       [50, 66,  3, 43],
       [55, 39, 48,  1],
       [62, 50, 88, 42],
       [64, 21, 45, 79],
       [76, 14, 39, 80],
       [15, 78, 34, 98],
       [74, 52, 49,  3]])
```

In [3]:

```
dataframe= pd.DataFrame(data=datos, columns=['c1','c2','c3','etiqueta'])
```

In [4]:

```
dataframe
```

Out[4]:

	c1	c2	c3	etiqueta
0	76	67	82	52
1	56	15	85	39
2	84	29	28	95
3	53	39	76	21
4	75	13	20	86
...	...	...	...	...
95	62	50	88	42
96	64	21	45	79
97	76	14	39	80
98	15	78	34	98
99	74	52	49	3

100 rows × 4 columns

In [6]:

```
x = dataframe[['c1','c2','c3']]
```

In [7]:

```
y = dataframe['etiqueta']
```

In [8]:

```
y
```

Out[8]:

```
0     52
1     39
2     95
3     21
4     86
      ..
95    42
96    79
97    80
98    98
99     3
Name: etiqueta, Length: 100, dtype: int32
```

In [18]:

```
x_train, xtest, ytrain, ytest = train_test_split(x,y test_size=0.3)
```

```
  File "<ipython-input-18-b46b096612f8>", line 1
    xtrain, xtest, ytrain, ytest = train_test_split(x,y test_size=0.3)
                                                                  ^
SyntaxError: invalid syntax
```

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