```
(13/10/2025, Monday)

1) Extract data of u gear & automatic care.

d2[(d2['gear'] == 4) & (d2['anr] == 1)]

2) Extract data of (are who's hp à range blu 100 to 200,

d2[(d2['hp'] >= 100) & (d2['hp'] <= 200)]

2nd meleo

d2[d2['hp'] between (100, 200)]

3) Extract the data of care which hv 6 Cyl or 4 Corb.

d2[(d2['Cyl'] == 6) | (d2['(arb'] == 4)]

4) Extract records or (are who's 'dup' range is 300 to 600 or 'vs'

should be 1.

d2[(d2['dup'] = between (300, 400)) | (d2['vs'] == 1)]
```

merge 3 files.

my files are like sales 1, sales 2, sales 3 hr to merge there tiles in a Ringle file.

final - Rale = pd. concat (Salers, Salers, Salers)

It will through an error like concat () takes 1 positional argument but 3 were given

* To part there 3 arguments in a single positional argument means we convert it to liet. On

LIKE - 4 final - rale = pd. concat ([saless, saless])

Tack

- i) Convert objects data types to numerical. (coerce) find-sale ['Rate'] = pd. to-numeric (final-sale ['Rate'], errors. erross. 'Coerce' - & It will used, non-numeric values into Nan intead of throwing an error.
- 2) on Insurance data
- @ Each region wise total expense.

deg-exp = (d1.groupby ('Region') ['expenses']. sum ()

Here I'm writing region color in () bracket beg which colon I have to group that should be written in () bracket,

- & Groups your data by each unique segion.
- *['expenses'] -4 focus only on the expenses color inide those groups
- . Sum i Adds up the expenses for each region.
- BGender wire avg bni & expenser. pouble bracked for passing gender-avg; d1. groupby ('sex') [['bmi', 'cxpenser']]. mean() gudio-arg.