Pokemon

Introduction:

This time you will create the data.

Step 1. Import the necessary libraries

```
import pandas as pd
```

+ Mã + Văn bản

Step 2. Create a data dictionary that looks like the DataFrame below

```
data = {
    'evolution': ['Ivysaur', 'Charmeleon', 'Wartortle', 'Metapod'],
    'hp': [45, 39, 44, 45],
    'name': ['Bulbasaur', 'Charmander', 'Squirtle', 'Caterpie'],
    'pokedex': ['yes', 'no', 'yes', 'no'],
    'type': ['grass', 'fire', 'water', 'bug']
}

df = pd.DataFrame(data)
print(df)
```

```
     evolution  hp        name pokedex   type
0     Ivysaur  45   Bulbasaur     yes  grass
1  Charmeleon  39  Charmander      no   fire
2   Wartortle  44    Squirtle     yes  water
3     Metapod  45    Caterpie      no    bug
```

Step 3. Assign it to a variable called pokemon

Tạo | randomly select 5 items from a list | Đóng

```
pokemon = df
print(pokemon)
```

```
     evolution  hp        name pokedex   type
0     Ivysaur  45   Bulbasaur     yes  grass
1  Charmeleon  39  Charmander      no   fire
2   Wartortle  44    Squirtle     yes  water
3     Metapod  45    Caterpie      no    bug
```

Step 4. Ops...it seems the DataFrame columns are in alphabetical order. Place the order of the columns as name, type, hp, evolution, pokedex

```
pokemon = pokemon[['name', 'type', 'hp', 'evolution', 'pokedex']]
print(pokemon)
```

```
          name   type  hp   evolution pokedex
0   Bulbasaur  grass  45     Ivysaur     yes
1  Charmander   fire  39  Charmeleon      no
2    Squirtle  water  44   Wartortle     yes
3    Caterpie    bug  45     Metapod      no
```

Step 5. Add another column called place, and insert what you have in mind.

```
pokemon['place'] = ['forest', 'mountain', 'river', 'forest']
pokemon
```

```
<ipython-input-7-e5bdce60e078>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus
  pokemon['place'] = ['forest', 'mountain', 'river', 'forest']
```

	name	type	hp	evolution	pokedex	place
0	Bulbasaur	grass	45	Ivysaur	yes	forest
1	Charmander	fire	39	Charmeleon	no	mountain
2	Squirtle	water	44	Wartortle	yes	river
3	Caterpie	bug	45	Metapod	no	forest

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Step 6. Present the type of each column

```
print(pokemon.dtypes)
```

```
name         object
type         object
hp            int64
evolution    object
pokedex      object
place        object
dtype: object
```

BONUS: Create your own question and answer it.

Bắt đầu lập trình hoặc tạo mã bằng trí tuệ nhân tạo (AI).