# Pokemon

## Introduction:

This time you will create the data.

### Step 1. Import the necessary libraries

```
import pandas as pd
```

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

```
pokedex = {
    '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']
}
```

### Step 3. Assign it to a variable called pokemon

```
pokemon = pd.DataFrame(pokedex)
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.copy()
pokemon = pokemon[['name', 'type', 'hp', 'evolution', 'pokedex']]
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', 'cave', 'lake', 'cave']
pokemon
```

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

## Step 6. Present the type of each column

```
pokemon.dtypes
```

| | 0 |
|---|---|
| **name** | object |
| **type** | object |
| **hp** | int64 |
| **evolution** | object |
| **pokedex** | object |
| **place** | object |

**dtype:** object

## BONUS: Create your own question and answer it.

```
# q: display rows of pokemons with >40hp
# a:
hp40_pokemons = pokemon[pokemon['hp'] > 40]
hp40_pokemons
```

Show hidden output