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1. Creating a Dictionary

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In [1]:
```
pop = [30.55, 2.77, 39.21, 25.61, 36.52]
countries = ['Afghanistan', 'Albania', 'Algeria', 'Nigeria', 'Ghana']
```

In [2]:
```
world = {country: pop for country, pop in zip(countries, pop)}
print(world)
```

```
{'Afghanistan': 30.55, 'Albania': 2.77, 'Algeria': 39.21, 'Nigeria':
25.61, 'Ghana': 36.52}
```

---

2. Methods

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2.1. `.keys()`

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In [4]:
```
world.keys()
```

Out[4]:
```
dict_keys(['Afghanistan', 'Albania', 'Algeria', 'Nigeria', 'Ghana'])
```

`in`

(go to top)

In [12]:
```
'Nigeria' in world
```

Out[12]:
```
True
```

`del()`

(go to top)

In [13]:
```
del(world['Ghana'])
print(world)
```

```
{'Afghanistan': 30.55, 'Albania': 2.77, 'Algeria': 39.21, 'Nigeria':
25.61}
```

3. Indexing & Slicing

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In [21]:
```
world['Nigeria']
```

Out[21]:
```
25.61
```

add to a dict

(go to top)

In [27]:
```
world['Ethiopia'] = 24.25
print(world)
```

```
{'Afghanistan': 30.55, 'Albania': 2.77, 'Algeria': 39.21, 'Nigeria':
25.61, 'Ghana': 36.52, 'Ethiopia': 24.25}
```

replace value

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In [31]:
```
world['Nigeria'] = 66.32
print(world)
```

```
{'Afghanistan': 30.55, 'Albania': 2.77, 'Algeria': 39.21, 'Nigeria':
66.32, 'Ghana': 36.52, 'Ethiopia': 24.25}
```

4. Nested Dictionaries

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In [24]:
```
europe =  {'spain': {'capital': 'madrid', 'population': 47.66 },
           'germany': {'capital': 'berlin', 'population': 23.66 },
           'nigeria': {'capital': 'lagos', 'population': 34.66 },
           'usa': {'capital': 'washington', 'population': 97.66 }}
```

In [25]:
```
print(europe['spain']['capital'])
```

```
madrid
```

- **add to dict**

In [28]:
```
europe['italy'] = {'capital': 'rome', 'population': '34.55'}
display(europe)
```

```
{'spain': {'capital': 'madrid', 'population': 47.66},
 'germany': {'capital': 'berlin', 'population': 23.66},
 'nigeria': {'capital': 'lagos', 'population': 34.66},
 'usa': {'capital': 'washington', 'population': 97.66},
 'italy': {'capital': 'rome', 'population': '34.55'}}
```

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5. Title

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6. Title

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7. Title

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In [ ]: