

## Example\_Chapter8

October 26, 2021

```
[1]: import pandas as pd
import random
from random import sample
```

```
[2]: # simple example
list1 = [1, 2, 3, 4, 5]
print(sample(list1,3))
```

[1, 3, 5]

```
[3]: Hotels=["Aloha Kai","Captiva","Palm Tree","Sea Shell","Anchor Down",
            "Casa del Mar","Radisson","Silver Beach","Banana Bay", "Coconuts",
            "Ramada","Sunset Beach","Banyan_
↳Tree","Diplomat","Sandpiper","Tradewinds",
            "Beach Castle","Holiday Inn","Sea Castle","Tropical Breeze", "Best_
↳Western","Lime Tree",
            "Sea Club","Tropical Shores","Cabana","Outrigger","Sea Grape","Veranda"]
```

```
[4]: print(sample(Hotels,4))
```

['Outrigger', 'Tropical Breeze', 'Palm Tree', 'Banana Bay']

```
[5]: # What about if you read the data from a CSV file?
Hotels=pd.read_csv("Hotels.csv")
Hotels.head(5)
```

```
[5]:   ID      Name
0    1  Aloha Kai
1    2  Anchor Down
2    3  Banana Bay
3    4  Banyan Tree
4    5  Beach Castle
```

```
[6]: # Try this: print(sample(Hotels["Name"],4)). It will give you an error.
↳Hotels["Name"] needs to be a list or set.
# sample(Hotels["Name"],4)
```

```
[7]: print(sample(list(Hotels["Name"]),4))
```

```
['Sea Castle', 'Tropical Breeze', 'Casa del Mar', 'Radisson']
```

```
[8]: print(sample(set(Hotels["Name"]),4))
```

```
['Veranda', 'Silver Beach', 'Outrigger', 'Beach Castle']
```

```
[9]: random.seed(a=36)  
print(sample(set(Hotels["Name"]),4))
```

```
['Sea Club', 'Sea Shell', 'Ramada', 'Tropical Shores']
```

```
[10]: random.seed(a=36)  
print(sample(set(Hotels["Name"]),4))
```

```
['Sea Club', 'Sea Shell', 'Ramada', 'Tropical Shores']
```

```
[ ]:
```