In [104]:
```
import pandas as pd
pokemon = pd.read_csv("Pokemon.csv",squeeze = True,index_col="Name")
print(pokemon)
```

```
Name
Bulbasaur                      Grass
Ivysaur                        Grass
Venusaur                       Grass
VenusaurMega Venusaur          Grass
Charmander                      Fire
Charmeleon                      Fire
Charizard                       Fire
CharizardMega Charizard X       Fire
CharizardMega Charizard Y       Fire
Squirtle                       Water
Wartortle                      Water
Blastoise                      Water
BlastoiseMega Blastoise        Water
Caterpie                         Bug
Metapod                          Bug
Butterfree                       Bug
Weedle                           Bug
Kakuna                           Bug
Beedrill                         Bug
BeedrillMega Beedrill            Bug
Pidgey                        Normal
Pidgeotto                     Normal
Pidgeot                       Normal
PidgeotMega Pidgeot           Normal
Rattata                       Normal
Raticate                      Normal
Spearow                       Normal
Fearow                        Normal
Ekans                         Poison
Arbok                         Poison
                               ...
Sylveon                        Fairy
Hawlucha                    Fighting
Dedenne                     Electric
Carbink                         Rock
Goomy                         Dragon
Sliggoo                       Dragon
Goodra                        Dragon
Klefki                         Steel
Phantump                       Ghost
Trevenant                      Ghost
PumpkabooAverage Size          Ghost
PumpkabooSmall Size            Ghost
PumpkabooLarge Size            Ghost
PumpkabooSuper Size            Ghost
GourgeistAverage Size          Ghost
GourgeistSmall Size            Ghost
GourgeistLarge Size            Ghost
GourgeistSuper Size            Ghost
Bergmite                         Ice
Avalugg                          Ice
Noibat                        Flying
Noivern                       Flying
Xerneas                        Fairy
Yveltal                         Dark
Zygarde50% Forme              Dragon
Diancie                         Rock
DiancieMega Diancie             Rock
HoopaHoopa Confined           Psychic
HoopaHoopa Unbound            Psychic
Volcanion                        Fire
Name: Type 1, Length: 800, dtype: object
```

In [105]:
```
pokemon[1:4]
```

Out[105]:
```
Name
Ivysaur                 Grass
Venusaur                Grass
VenusaurMega Venusaur   Grass
Name: Type 1, dtype: object
```

In [107]:
```
pokemon["Bulbasaur"]
```

Out[107]:
```
'Grass'
```

In [108]:
```
pokemon[["Yveltal","Volcanion"]]
```

Out[108]:
```
Name
Yveltal      Dark
Volcanion    Fire
Name: Type 1, dtype: object
```

In [109]:
```
pokemon[[10,20,30]]
```

Out[109]:
```
Name
Wartortle       Water
Pidgey         Normal
Pikachu      Electric
Name: Type 1, dtype: object
```

In [110]:
```
pokemon["Digimon"]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_value(self, series, key)
   4380             try:
-> 4381                 return libindex.get_value_box(s, key)
   4382             except IndexError:

pandas/_libs/index.pyx in pandas._libs.index.get_value_box()

pandas/_libs/index.pyx in pandas._libs.index.get_value_at()

pandas/_libs/util.pxd in pandas._libs.util.get_value_at()

pandas/_libs/util.pxd in pandas._libs.util.validate_indexer()

TypeError: 'str' object cannot be interpreted as an integer

During handling of the above exception, another exception occurred:

KeyError                                  Traceback (most recent call last)
<ipython-input-110-ca2af26142e2> in <module>
----> 1 pokemon["Digimon"]

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\series.py in __getitem__(self, key)
    866         key = com.apply_if_callable(key, self)
    867         try:
--> 868             result = self.index.get_value(self, key)
    869
    870             if not is_scalar(result):

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_value(self, series, key)
   4387                     raise InvalidIndexError(key)
   4388                 else:
-> 4389                     raise e1
   4390             except Exception:  # pragma: no cover
   4391                 raise e1

C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_value(self, series, key)
   4373         try:
   4374             return self._engine.get_value(s, k,
-> 4375                                           tz=getattr(series.dtype, 'tz', None))
   4376         except KeyError as e1:
   4377             if len(self) > 0 and (self.holds_integer() or self.is_boolean()):

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_value()

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_value()

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'Digimon'
```

In [111]:
```
pokemon[["Pikachu","Digimon"]]
#Panda handle that "Digimon" type value that does not exist in file it shows NaN type of automatically..
```

```
C:\ProgramData\Anaconda3\lib\site-packages\pandas\core\series.py:951: FutureWarning:
Passing list-likes to .loc or [] with any missing label will raise
KeyError in the future, you can use .reindex() as an alternative.

See the documentation here:
https://pandas.pydata.org/pandas-docs/stable/indexing.html#deprecate-loc-reindex-listlike
  return self.loc[key]
```

Out[111]:
```
Name
Pikachu    Electric
Digimon         NaN
Name: Type 1, dtype: object
```

In [112]:
```
pokemon["Bulbasaur":"Pikachu"]
```

Out[112]:
```
Name
Bulbasaur                      Grass
Ivysaur                        Grass
Venusaur                       Grass
VenusaurMega Venusaur          Grass
Charmander                      Fire
Charmeleon                      Fire
Charizard                       Fire
CharizardMega Charizard X       Fire
CharizardMega Charizard Y       Fire
Squirtle                       Water
Wartortle                      Water
Blastoise                      Water
BlastoiseMega Blastoise        Water
Caterpie                         Bug
Metapod                          Bug
Butterfree                       Bug
Weedle                           Bug
Kakuna                           Bug
Beedrill                         Bug
BeedrillMega Beedrill            Bug
Pidgey                        Normal
Pidgeotto                     Normal
Pidgeot                       Normal
PidgeotMega Pidgeot           Normal
Rattata                       Normal
Raticate                      Normal
Spearow                       Normal
Fearow                        Normal
Ekans                         Poison
Arbok                         Poison
Pikachu                     Electric
Name: Type 1, dtype: object
```

In [ ]: