In [1]:

```
import pandas


mydataset = {
  'cars': ["BMW", "Volvo", "Ford"],
  'passings': [3, 7, 2]
}

myvar = pandas.DataFrame(mydataset)

print(myvar)
```

```
    cars  passings
0    BMW         3
1  Volvo         7
2   Ford         2
```

In [2]:

```
import pandas as pd

mydataset = {
  'cars': ["BMW", "Volvo", "Ford"],
  'passings': [3, 7, 2]
}

myvar = pd.DataFrame(mydataset)

print(myvar)
```

```
    cars  passings
0    BMW         3
1  Volvo         7
2   Ford         2
```

In [7]:

```
import pandas

hotelveg = {
    "veg menu" : ["veg meals","veg fried rice","gobhi munchuria"],
    "price" : ["120","150","200"]
}
hotelnonveg = {
    "nonveg menu" : ["dum biriyani","chicken 65","chilly chicken"],
    "price" : ["300","210","210"]
}

print(pandas.DataFrame(hotelveg))
print("-------------------------------")
print(pandas.DataFrame(hotelnonveg))
```

```
          veg menu price
0        veg meals   120
1   veg fried rice   150
2  gobhi munchuria   200
-------------------------------
      nonveg menu price
0    dum biriyani   300
1      chicken 65   210
2  chilly chicken   210
```

In [21]:

```
import pandas
menu = pandas.read_csv("E:\\menuc.csv")
print(menu.to_string())
```

```
   s.no              veg  price
0     1            meals  120.0
1     2  veg fried  rice  150.0
2     3    veg manchuria  150.0
3     4   mush room rice  160.0
4     5              NaN    NaN
```

Exporting to excel

In [11]:

```
import pandas as d

hotelveg = {
    "veg menu" : ["veg meals","veg fried rice","gobhi munchuria"],
    "price" : ["120","150","200"]
}
hotelnonveg = {
    "nonveg menu" : ["dum biriyani","chicken 65","chilly chicken"],
    "price" : ["300","210","210"]
}
menu=d.DataFrame(hotelveg)
fname='menu.xlsx'
menu.to_excel(fname)
print(menu)
```

```
          veg menu price
0        veg meals   120
1   veg fried rice   150
2  gobhi munchuria   200
```

Pandas Series

In [7]:

```
import pandas as d

family = {
    'names': ['Kanaka Raju','Padmavathi','Dedipya','Siddardha'],
    'age': [38,38,18,16],
    'phno.': ['9866125466','9182638454','7075766077','8897435466']
}
print(d.Series(family))
```

```
names       [Kanaka Raju, Padmavathi, Dedipya, Siddardha]
age                                      [38, 38, 18, 16]
phno.    [9866125466, 9182638454, 7075766077, 8897435466]
dtype: object
```

In [9]:

```
import pandas as d

a=[1,2,3,5]
print(d.Series(a))
b=d.Series(a)
print(b[0])
```

```
0    1
1    2
2    3
3    5
dtype: int64
1
```

In [14]:

```
import pandas as d

a=[2,3,5]
b=(d.Series(a,index = ['p1','p2','p3']))
print(b)
print(b['p2'])
```

```
p1    2
p2    3
p3    5
dtype: int64
3
```

In [17]:

```
import pandas as d

expenditure = { 'mon':100,'tue':50,'wed':120}
print(d.Series(expenditure))
print(d.Series(expenditure, index=['tue','wed']))
```

```
mon    100
tue     50
wed    120
dtype: int64
tue     50
wed    120
dtype: int64
```

In [34]:

```
import pandas as d

days= {
    'day':[1,2,3,4,5,6,7],
    'spent':[10,30,50,100,0,20,0]
}
print(d.DataFrame(days))
#locate the row
b=d.DataFrame(days)
print(b.loc[0:4])
print(d.DataFrame(days,index=['a','b','c','d','e','f','g']))
f=d.DataFrame(days,index=['a','b','c','d','e','f','g'])
print(f.loc['b'])
```

```
   day  spent
0    1     10
1    2     30
2    3     50
3    4    100
4    5      0
5    6     20
6    7      0
   day  spent
0    1     10
1    2     30
2    3     50
3    4    100
4    5      0
   day  spent
a    1     10
b    2     30
c    3     50
d    4    100
e    5      0
f    6     20
g    7      0
day       2
spent    30
Name: b, dtype: int64
```

Clearing Data

In [1]:

```
import pandas as d
a=d.read_csv('E:\\details.csv')
b=a.dropna()
print(b.to_string())
print()
```

```
   count       name   age  gender
0      1    Dedipya  18.0       F
1      2     Hemika  18.0       F
2      3    Shruthi  18.0       F
4      5  Siddardha  16.0       M
```

In [2]:

```
import pandas as d

a =d.read_csv('E:\\details.csv')
a.dropna(inplace = True)
print(a.to_string())
```

```
   count      name   age  gender
0      1    Dedipya  18.0      F
1      2     Hemika  18.0      F
2      3    Shruthi  18.0      F
4      5  Siddardha  16.0      M
```

In [5]:

```
# Replace empty values
import pandas as s
a=s.read_csv('E:\\details.csv')
a.fillna(19,inplace=True)
print(a.to_string)
```

```
<bound method DataFrame.to_string of    count      name   age  gender
0      1    Dedipya  18.0      F
1      2     Hemika  18.0      F
2      3    Shruthi  18.0      F
3      4  kiran mai  19.0      F
4      5  Siddardha  16.0      M>
```

In [1]:

```
# Replace only specified columns
import pandas as d
a=d.read_csv('E:\\details.csv')
a["gender"].fillna('F',inplace=True)
print(a.to_string())
```

```
   count      name   age  gender
0      1    Dedipya  18.0      F
1      2     Hemika  18.0      F
2      3    Shruthi  18.0      F
3      4        NaN   NaN      F
4      5  Siddardha  16.0      M
```

```
In [4]: import pandas as d
        a=d.read_csv('E:\\details.csv')
        a[''].fillna(20,inplace=True)
        print(a.to_string())
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
~\anaconda3\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc
(self, key, method, tolerance)
   3360             try:
-> 3361                 return self._engine.get_loc(casted_key)
   3362             except KeyError as err:

~\anaconda3\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.
index.IndexEngine.get_loc()

~\anaconda3\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.
index.IndexEngine.get_loc()

pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashT
able.get_item()

pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashT
able.get_item()

KeyError: 'name'

The above exception was the direct cause of the following exception:

KeyError                                  Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_9380/902549611.py in <module>
      1 import pandas as d
      2 a=d.read_csv('E:\\details.csv')
----> 3 a['name'].fillna(20,inplace=True)
      4 print(a.to_string())

~\anaconda3\anaconda3\lib\site-packages\pandas\core\frame.py in __getitem__(sel
f, key)
   3456             if self.columns.nlevels > 1:
   3457                 return self._getitem_multilevel(key)
-> 3458             indexer = self.columns.get_loc(key)
   3459             if is_integer(indexer):
   3460                 indexer = [indexer]

~\anaconda3\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc
(self, key, method, tolerance)
   3361                 return self._engine.get_loc(casted_key)
   3362             except KeyError as err:
-> 3363                 raise KeyError(key) from err
   3364 
   3365         if is_scalar(key) and isna(key) and not self.hasnans:

KeyError: 'name'
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```