In [ ]:
```
import pandas
```

In [7]:
```
import pandas
fruits= {
    'fruits' : ["apple", "banana", "cherry"],
    'passings' : [1,2,3]

}
a = pandas.DataFrame(fruits)
print(a)
```

```
   fruits  passings
0   apple         1
1  banana         2
2  cherry         3
```

In [9]:
```
#IMPORT FROM EXCEL
import pandas
rest = pandas.read_csv("E:\\Book1.csv")
print(rest.to_string())
```

```
   S.No  Fruits    Price
0   1.0   APPLE   $3.00
1   2.0  BANANA   $4.00
2   3.0  GRAPES   $2.00
3   4.0   GAUVA   $6.00
4   NaN     NaN      NaN
```

In [18]:
```
#EXPORT TO EXCEL
import pandas as pd
Friends = {
    "Name" : ['Laxman','Saketh','Sai Charan','Sohan'],
    "Age" : [18,18,9,18],
    "Gender":['M','M','F','M']
}
a=pd.DataFrame(Friends)
print(a)
a.to_excel (r'C:\Users\CSE22004\Desktop\Friends.xlsx')
```

```
         Name  Age Gender
0      Laxman   18      M
1      Saketh   18      M
2  Sai Charan    9      F
3       Sohan   18      M
```

In [21]:
```
#PANDAS SERIES
import pandas as pd
a=[1,5,3,9,7]
x=pd.Series(a)
print(x)
print(x[3])
```

```
0    1
1    5
2    3
3    9
4    7
dtype: int64
9
```

In [28]:
```
#PANDAS SERIES
import pandas as pd
a=[1,4,2,6,5,9,7,8]
x=pd.Series(a,index=["a","b","c","d","e","f","g","h"])
print(x)
print(x["e"])
```

```
a    1
b    4
c    2
d    6
e    5
f    9
g    7
h    8
dtype: int64
5
```

In [54]:
```
#PANDAS SERIES
import pandas as pd
steps = {"day 1":4500,"day 2": 7000,"day 3":8300,"day 4":5500}
a=pd.Series(steps)
print(a)
#Create a Series using only data from "day1" and "day2":
steps = {"day 1":4500,"day 2": 7000,"day 3":8300,"day 4":5500}
b= pd.Series(steps,index=["day 1", "day 2"])
print(b)
```

```
day 1    4500
day 2    7000
day 3    8300
day 4    5500
dtype: int64
day 1    4500
day 2    7000
dtype: int64
```

In [67]:
```
#Create a DataFrame from two Series:
import pandas as pd
stepsdata={
    "steps taken":[4500,5500,7500,4000],
    "duration":[30,45,60,25]
}
a=pd.DataFrame(stepsdata)
print(a)
#refer to the row index:
print(a.loc[0])
#use a list of indexes to locate multiple rows:
print(a.loc[[0,1,3]])


#Add a list of names to give each row a name:
b = pd.DataFrame(stepsdata,index=["day1","day2","day3","day4"])
print(b)

#refer to the named index:
print(b.loc["day3"])
```

```
   steps taken  duration
0         4500        30
1         5500        45
2         7500        60
3         4000        25
steps taken    4500
duration         30
Name: 0, dtype: int64
   steps taken  duration
0         4500        30
1         5500        45
3         4000        25
      steps taken  duration
day1         4500        30
day2         5500        45
day3         7500        60
day4         4000        25
steps taken    7500
duration         60
Name: day3, dtype: int64
```

In [ ]:

In [ ]: