```
In [13]: #####Duplicate removal
    import pandas as pd
    df = pd.read_csv("E:\\yamini.csv")
    print(df.to_string())
    de=df.drop_duplicates(subset="Gender")
    print(de)
```

```
Serial.No
                    Name
                           Age
                                Gender
                                           Phone No Address
                                                                            Email
0
                                Female
                                                                cyamini@gitam.in
             1
                  Yamini
                            18
                                         2345678901
                                                         Nad
             2
                                                               sdfghdfg@gitam.in
1
                  Reshma
                            18
                                Female
                                         4563217895
                                                         Nad
2
             3
                   Nancy
                            18
                                Female
                                         4563217895
                                                         Nad
                                                                    yhsi@gitam.in
3
             4
                  Sowmya
                                Female
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
             5
4
                  Anagha
                                Female
                                         4563217895
                                                                cyamini@gitam.in
                            18
                                                         Nad
5
                                         4563217895
             6
                   Mohan
                            45
                                   male
                                                         Nad
                                                                cyamini@gitam.in
             7
                 Likitha
                            54
                                Female
                                         5637856467
                                                                cyamini@gitam.in
6
                                                         Nad
7
             8
                                                                cyamini@gitam.in
                  Shreya
                            87
                                Female
                                         4563217895
                                                         Nad
8
             9
                Sharmila
                                Female
                                         4563217895
                                                                cyamini@gitam.in
                            78
                                                         Nad
9
                 Mounika
            10
                                Female
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
10
            11
                Sangeeta
                            12
                                Female
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
            12
                            12
                                Female
                                         4563217895
                                                                cyamini@gitam.in
11
                      Sai
                                                         Nad
12
            13
                    Tina
                            34
                                Female
                                         4563217895
                                                                cyamini@gitam.in
                                                         Nad
13
            14
                 Jenisha
                            32
                                Female
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
14
            15
                 Manisha
                                   male
                                         4563217895
                                                                cyamini@gitam.in
                            87
                                                         Nad
15
            16
                 Meghana
                            43
                                Female
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
16
            17
                 Akshaya
                            18
                                   male
                                         4563217895
                                                                cyamini@gitam.in
                                                         Nad
17
            18
                  Manasa
                            18
                                Female
                                         4563217895
                                                                cyamini@gitam.in
                                                         Nad
18
            19
                  Anitha
                            18
                                  male
                                         4563217895
                                                         Nad
                                                                cyamini@gitam.in
19
            20
                                                                cyamini@gitam.in
                    Asha
                            18
                                Female
                                         4563217895
                                                         Nad
   Serial.No
                 Name
                        Age
                             Gender
                                        Phone No Address
                                                                        Email
0
            1
               Yamini
                         18
                             Female
                                      2345678901
                                                     Nad
                                                            cyamini@gitam.in
5
           6
                Mohan
                         45
                               male
                                      4563217895
                                                     Nad
                                                            cyamini@gitam.in
```

```
In [15]: import pandas as pd
    df = pd.read_csv("E:\\yamini.csv")
    de=df.drop_duplicates(subset="Gender",keep="first")
    print(de)
```

```
Serial.No
                 Name
                        Age
                             Gender
                                        Phone No Address
                                                                        Email
0
                         18
                             Female
                                      2345678901
                                                            cyamini@gitam.in
            1
               Yamini
                                                     Nad
5
            6
                Mohan
                         45
                               male
                                      4563217895
                                                            cyamini@gitam.in
                                                     Nad
```

```
In [8]: import pandas as pd
    df = pd.read_csv("E:\\details.csv")
    print(df.to_string())
```

```
Serial No
                                           Phone No Address
                                                                            Email
                    Name
                           Age
                                Gender
0
             1
                  Yamini
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
1
             2
                                                               sdfghdfg@gitam.in
                  Reshma
                            18
                                Female
                                         4563217895
                                                        Nad
2
             3
                   Nancy
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                   yhsi@gitam.in
3
             4
                  Sowmya
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
             5
4
                  Anagha
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
5
             6
                   Mohan
                            45
                                   male
                                         4563217895
                                                                cyamini@gitam.in
                                                        Nad
                            54
6
             7
                 Likitha
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
7
             8
                  Shreya
                            87
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
             9
8
                Sharmila
                            78
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
9
                 Mounika
                                Female
                                         4563217895
                                                                cyamini@gitam.in
            10
                            98
                                                        Nad
10
            11
                Sangeeta
                            12
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
           12
11
                      Sai
                            12
                                Female
                                         4563217895
                                                                cyamini@gitam.in
                                                        Nad
                                                        Nad
12
           13
                    Tina
                            34
                                Female
                                         4563217895
                                                                cyamini@gitam.in
13
           14
                                Female
                                                                cyamini@gitam.in
                 Jenisha
                            32
                                         4563217895
                                                        Nad
14
           15
                 Manisha
                            87
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
                                Female
                                         4563217895
15
            16
                 Meghana
                            43
                                                        Nad
                                                                cyamini@gitam.in
16
            17
                 Akshaya
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
17
            18
                  Manasa
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
18
            19
                  Anitha
                            18
                                Female
                                         4563217895
                                                        Nad
                                                                cyamini@gitam.in
19
            20
                                                                cyamini@gitam.in
                    Asha
                            18
                                Female
                                         4563217895
                                                        Nad
```

```
In [22]: import pandas as pd

df = pd.read_csv("E:\\details.csv")
    df.aggregate({"Age":['min','max']})
```

## Out[22]:

	Age
min	12
max	98

```
In [23]: import pandas as pd
         df = pd.read_csv("E:\\details.csv")
         df.aggregate({"Age":['sum']})
Out[23]:
               Age
               744
          sum
In [24]: import pandas as pd
         df = pd.read_csv("E:\\details.csv")
         df.aggregate({"Phone No":['min','max']})
Out[24]:
                 Phone No
           min 4563217895
          max 4563217895
In [26]: import pandas as pd
         df = pd.read_csv("E:\\details.csv")
         df.aggregate({"Phone No":['sum']})
Out[26]:
                 Phone No
          sum 91264357900
In [27]: import pandas as pd
         df = pd.read csv("E:\\details.csv")
         df.aggregate({"Age":['mean']})
Out[27]:
                Age
          mean 37.2
In [34]: import pandas as pd
         df = pd.read_csv("E:\\details.csv")
         print(df.aggregate({"Serial No":['sum']}))
         print(df.aggregate({"Age":['max']}))
              Serial No
         sum
                     210
              Age
               98
         max
```