```
1    #Q1
2    import csv
3    file=open('abc.csv', 'w')
4    writer=csv.writer(file)
5    fields=['Roll number', 'Name', 'Marks']
6    rows=[['001', 'Aarohi', '9.0'],
7    ['002', 'Chhavi', '9.9'],
8    ['003', 'Disha', '8.3'],
9    ['004', 'Anu', '9.5'],
10   ['005', 'Kripa', '7.8'],
11   ['006', 'Navneet', '9.1'],
12   ['007', 'Bhavna', '7.1'],
13   ['008', 'Chanchal', '9.7'],
14   ['009', 'Cheshta', '6.5'],
15   ['010', 'Manvi', '5.0']]
16   writer.writerows(rows)
17   file.close()
18
19   #Read csv file; assign to data frame
20   file=open('abc.csv','r')
21   csvreader=csv.reader(file)
22   file.close()
23   import numpy as np
24   import pandas as pd
25   with open('abc.csv','r') as f:
26     read = csv.reader(f)
27     df = pd.DataFrame(read,columns = ['RollNo','Name','Marks'],index=None)
28
29   #Print observation .
30   df1=df.head(6)
31   print(df1)
```

```
      RollNo     Name Marks
0     001    Aarohi   9.0
1     002    Chhavi   9.9
2     003     Disha   8.3
3     004       Anu   9.5
4     005     Kripa   7.8
5     006   Navneet   9.1
```

```
1    #Q2
2    df3=pd.read_csv(r"abc.csv", sep=":", nrows=2)
3    print(df3)
```

```
     001,Aarohi,9.0
0   002,Chhavi,9.9
1    003,Disha,8.3
```

```
1    #Q3
2    from pandas._libs.parsers import TextReader
3    f = open("abc.txt", "w")
4    f.writelines("['Roll number' 'Name' 'Marks'] \n"
5    "['001' 'Aarohi' '9.0'] \n"
```

```
 6    "['002' 'Chhavi' '9.9'] \n"
 7    "['003' 'Diksha' '9.3'] \n"
 8    "['004' 'Anushree' '9.5'] \n"
 9    "['005' 'Kriti' '7.8'] \n"
10    "['006' 'Navya' '9.1'] \n"
11    "['007' 'Bhavya' '9.1'] \n"
12    "['008' 'Kanchal' '9.7'] \n"
13    "['009' 'Chinti' '9.5'] \n"
14    "['010' 'Manasvi' '2.0'] \n")
15    f.close()
16
17    #Read abc.txt file and assign to df9.
18    f = open("abc.txt", "r")
19    read=f.readlines()
20    f.close()
21
22    import pandas as pd
23    with open('abc.txt','r') as f:
24       read =f.read()
25
26    #print(read)
27    df9=pd.read_fwf('abc.txt')
28    #print(df9)
29
30    #Print first 5 observation and save to data frame df10.
31    df10=pd.read_fwf(r"abc.txt",nrows=5)
32    print(df10)
33
34    #Print last 4 observation and save to data frame df11.
35    df11=pd.read_fwf(r"abc.txt",nrows=4)
36    print(df11)
37
38    #Write df10 to a csv file.
39    df10.to_csv("abc.txt",sep=':')
40    print(df10)
```

```
      ['Roll number' 'Name' 'Marks']
    0  ['001'        'Aarohi' '9.0']
    1  ['002'        'Chhavi' '9.9']
    2  ['003'        'Diksha' '9.3']
    3  ['004'      'Anushree' '9.5']
    4  ['005'         'Kriti' '7.8']
      ['Roll number' 'Name' 'Marks']
    0  ['001'        'Aarohi' '9.0']
    1  ['002'        'Chhavi' '9.9']
    2  ['003'        'Diksha' '9.3']
    3  ['004'      'Anushree' '9.5']
      ['Roll number' 'Name' 'Marks']
    0  ['001'        'Aarohi' '9.0']
    1  ['002'        'Chhavi' '9.9']
    2  ['003'        'Diksha' '9.3']
    3  ['004'      'Anushree' '9.5']
    4  ['005'         'Kriti' '7.8']
```

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