

Q1.Create a csv file abc.csv with ten rows(Roll no , name , marks).

Read csv file and assign to data frame df.

Print first 6 observation .

Create a data frame df1 from df taking first 6 observation.

Write df1 to csv and colon separated file.

```
import csv
```

```
abc = [  
    ['1', 'John', '80'],  
    ['2', 'Alice', '90'],  
    ['3', 'Bob', '75'],  
    ['4', 'Sarah', '85'],  
    ['5', 'Mike', '92'],  
    ['6', 'Mary', '78'],  
    ['7', 'David', '88'],  
    ['8', 'Karen', '93'],  
    ['9', 'Tom', '81'],  
    ['10', 'Lisa', '87']  
]
```

```
import pandas as pd
```

```
df = pd.read_csv('abc.csv')  
print(df.head(6))
```


	Roll no	name	marks
0	1	John	80
1	2	Alice	90
2	3	Bob	75
3	4	Sarah	85
4	5	Mike	92
5	6	Mary	78

```
df1 = df.head(6)
```

```
df1.to_csv('df1.csv', index=False)
df1.to_csv('df1_colon_separated.txt', sep=':', index=False)
```

Q2. Create a data frame df3 Reading only three rows from abc.csv

```
df3=df.head(3)
df3
```

	Roll no	name	marks	
0	1	John	80	
1	2	Alice	90	
2	3	Bob	75	

Q3. Create a txt file abc.txt with ten rows(Roll no , name , marks).

Read abc.txt file and assign to df9.

Print first 5 observation and save to data frame df10.

Print last 4 observation and save to data frame df11.


Write df10 to a csv file.

```
data = [
    ['1', 'John', '80'],
    ['2', 'Alice', '90'],
    ['3', 'Bob', '75'],
    ['4', 'Sarah', '85'],
    ['5', 'Mike', '92'],
    ['6', 'Mary', '78'],
    ['7', 'David', '88'],
    ['8', 'Karen', '93'],
    ['9', 'Tom', '81'],
    ['10', 'Lisa', '87']
]
```

```
with open('abc.txt', 'w') as file:
    for row in data:
        file.write('\t'.join(row) + '\n')
```

```
import pandas as pd
```

```
df9 = pd.read_csv('abc.txt', delimiter='\t', header=None, names=['Roll no', 'name', 'marks'])
df9
```


	Roll no	name	marks	
0	1	John	80	
1	2	Alice	90	
2	3	Bob	75	
3	4	Sarah	85	
4	5	Mike	92	
5	6	Mary	78	
6	7	David	88	
7	8	Karen	93	
8	9	Tom	81	
9	10	Lisa	87	

```
print (df9.head())
df10=df9.head()
```

	Roll no	name	marks
0	1	John	80
1	2	Alice	90
2	3	Bob	75
3	4	Sarah	85
4	5	Mike	92

```
df11 = df9.tail(4)
print(df11)
```

```
df10.to_csv('df10.csv', index=False)
print(df10)
```

	Roll no	name	marks
6	7	David	88
7	8	Karen	93
8	9	Tom	81
9	10	Lisa	87

	Roll no	name	marks
0	1	John	80
1	2	Alice	90
2	3	Bob	75
3	4	Sarah	85
4	5	Mike	92

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