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Experiment No 1

Practical of reading and writing different types of datasets

a) Read data from given student data excel file

In [24]:

```
import pandas as pd
d=pd.read_excel('/Users/tusha/Downloads/student data.xlsx')
ds=pd.DataFrame(d)
ds
```

Out[24]:

	Roll No	Name	C	C++	Java	python	web technology
0	1	Tushar	78	90	65	98	78
1	2	Ram	67	99	66	56	65
2	3	Sham	98	78	78	76	87
3	4	Aryan	77	56	45	77	56
4	5	Akash	98	78	76	98	98
5	6	Athrava	90	65	73	65	89
6	7	praniket	76	76	92	83	78
7	8	vinod	56	88	90	71	85
8	9	vivek	67	77	72	63	59
9	10	dhirendra	78	68	75	52	67

b) Calculate total of marks and write total into excel file.

In [17]:

```
ds['Total']=ds['C']+ds['C++']+ds['Java']+ds['python']+ds['web technology']
```

```
-----
-
NameError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_1600\3299632244.py in <module>
----> 1 ds['Total']=ds['C']+ds['C++']+ds['Java']+ds['python']+ds['web tech
nology']
      2 ds
```

NameError: name 'ds' is not defined

In []:

c) Demonstrate how to read data from given csv file.

In [19]:

```
import pandas as pd
df=pd.read_csv('/Users/tusha/Downloads/tips (1).csv')
df
```

Out[19]:

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

d) Write data in excel file to csv file.

In [20]:

```
import pandas as pd
data = pd.read_excel('/Users/tusha/Downloads/student data.xlsx')
data.to_csv('output_file.csv', index=False)
new=pd.read_csv('output_file.csv')
new
```

Out[20]:

	Roll No	Name	C	C++	Java	python	web technology
0	1	Tushar	78	90	65	98	78
1	2	Ram	67	99	66	56	65
2	3	Sham	98	78	78	76	87
3	4	Aryan	77	56	45	77	56
4	5	Akash	98	78	76	98	98
5	6	Athrava	90	65	73	65	89
6	7	praniket	76	76	92	83	78
7	8	vinod	56	88	90	71	85
8	9	vivek	67	77	72	63	59
9	10	diendra	78	68	75	52	67

In []: