

# Rollno:225229104

## Uploading and Reading the dataset

```
In [11]: import pandas as pd
df=pd.read_csv("storedataset.csv")
print(df)
```

	country	sales	quantity	discount	profit
0	Algeria	408	2	0.0	106.140
1	Australia	120	3	0.1	36.036
2	Hungary	66	4	0.0	29.640
3	Sweden	45	3	0.5	-26.055
4	Australia	114	5	0.1	37.770
5	Australia	55	2	0.1	15.342
6	Canada	314	1	0.0	3.120
7	Australia	276	1	0.1	110.412
8	New Zealand	912	4	0.4	-319.464

**Print the properties of the data files such as size, shape, dimensions, etc.**

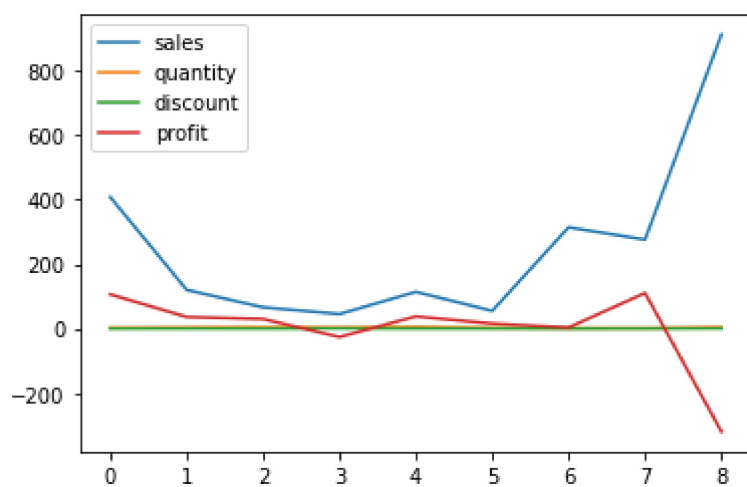
```
In [3]: print("Size=",df.size)
print("Shape=",df.shape)
print("Dimension=",df.ndim)
print("ndim of place=",df["discount"].ndim)
```

```
Size= 45
Shape= (9, 5)
Dimension= 2
ndim of place= 1
```

**Visualize each of these data files using graphs, diagrams, etc.**

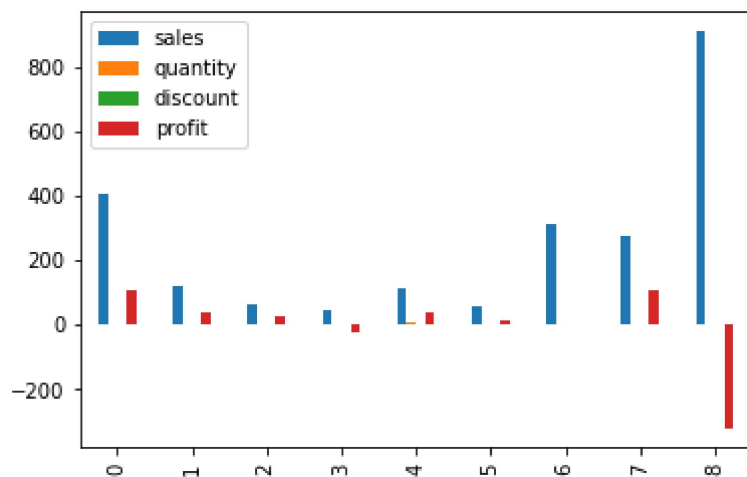
```
In [4]: df.plot()
```

Out[4]: <AxesSubplot:>

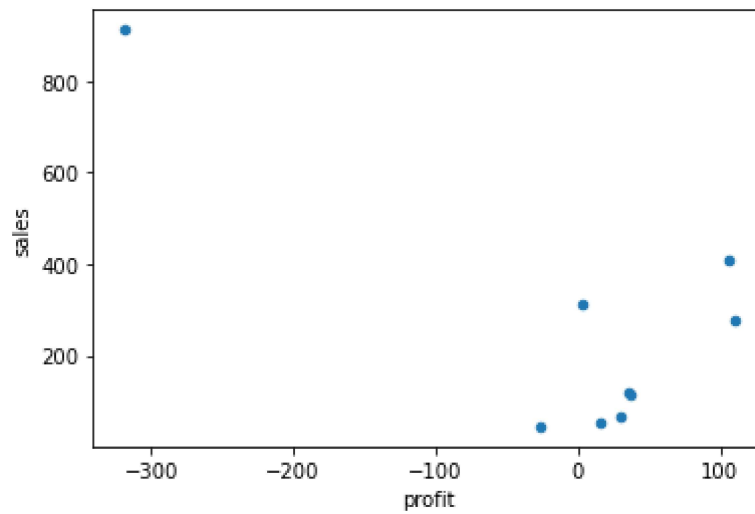


```
In [5]: df.plot(kind="bar")
```

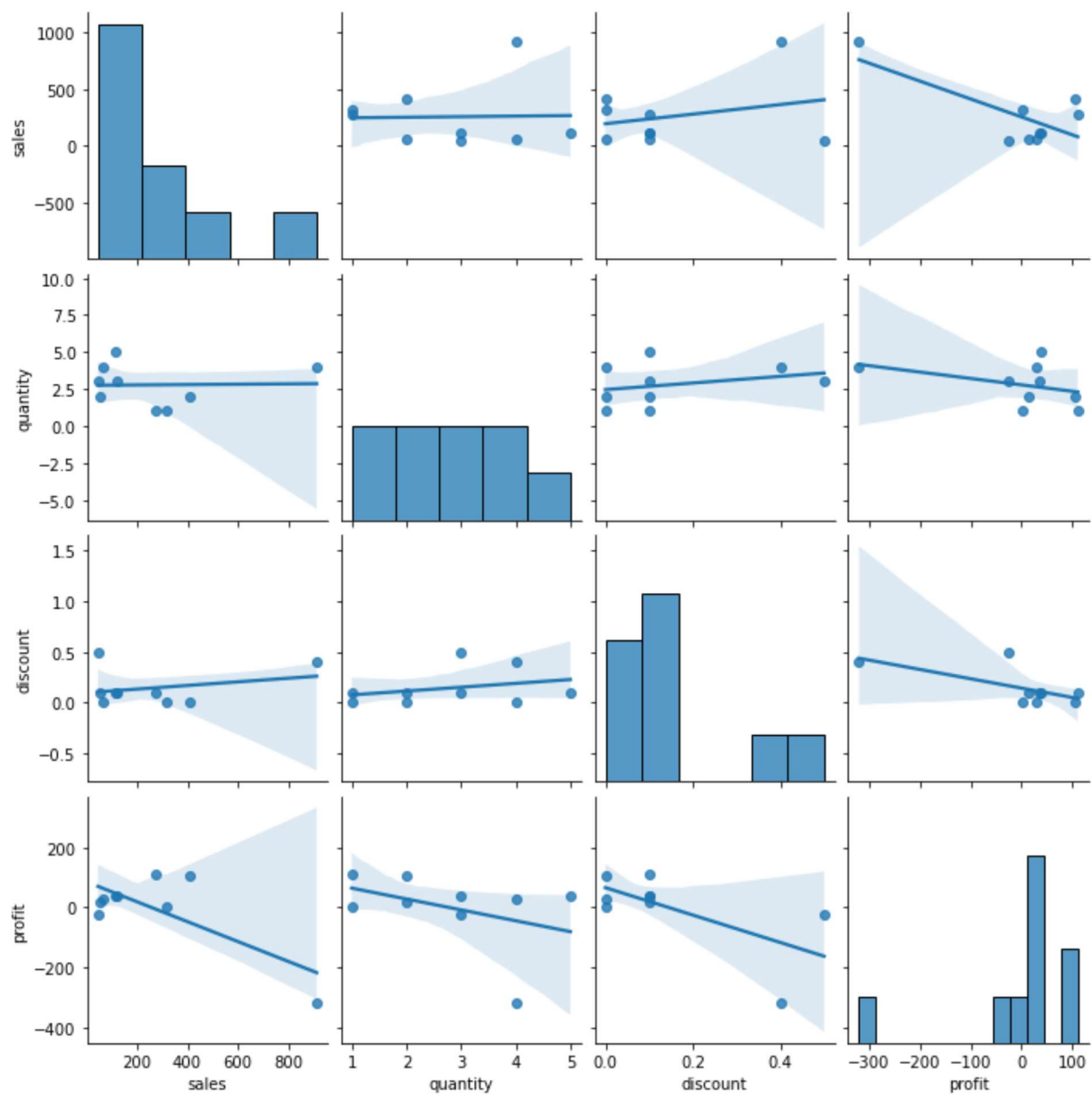
Out[5]: <AxesSubplot:>



```
In [6]: df.plot.scatter(x='profit',y='sales');
```



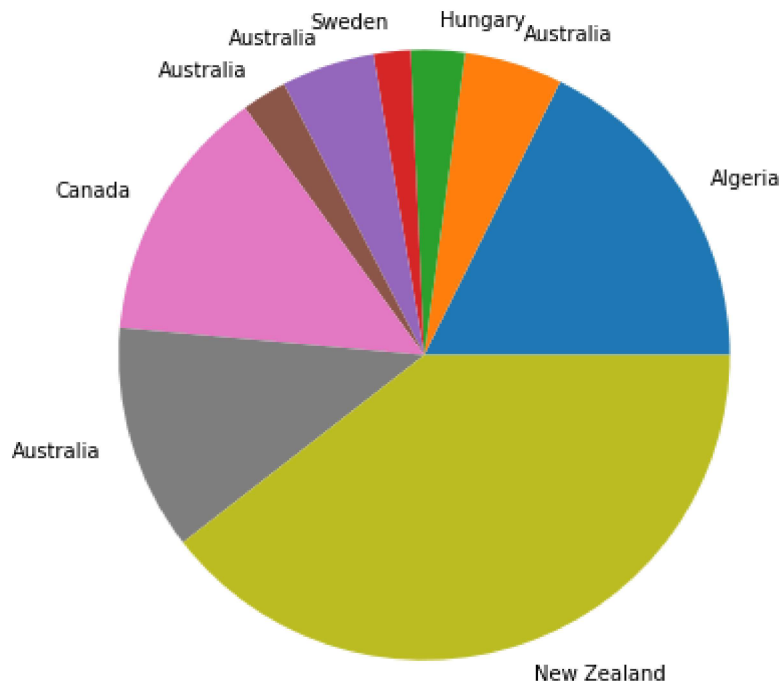
```
In [7]: import seaborn as ab
g=ab.pairplot(df,kind="reg")
```





```
In [8]: from matplotlib import pyplot as plt
country=['Algeria','Australia','Hungary','Sweden','Australia','Australia','Canada',
sales=[408,120,66,45,114,55,314,276,912]
fig=plt.figure(figsize=(10,7))
plt.pie(sales,labels=country)
```

```
Out[8]: ([<matplotlib.patches.Wedge at 0x1bea317ed00>,
<matplotlib.patches.Wedge at 0x1bea318a250>,
<matplotlib.patches.Wedge at 0x1bea318a730>,
<matplotlib.patches.Wedge at 0x1bea318ac10>,
<matplotlib.patches.Wedge at 0x1bea3197130>,
<matplotlib.patches.Wedge at 0x1bea3197610>,
<matplotlib.patches.Wedge at 0x1bea3197af0>,
<matplotlib.patches.Wedge at 0x1bea3197fd0>,
<matplotlib.patches.Wedge at 0x1bea31a34f0>],
[Text(0.9349607904111257, 0.5795242189881311, 'Algeria'),
Text(0.322800874885926, 1.0515700619420851, 'Australia'),
Text(0.04935132973704853, 1.0988923724611002, 'Hungary'),
Text(-0.11646898668808768, 1.093816700887242, 'Sweden'),
Text(-0.3484439267406344, 1.043353645662662, 'Australia'),
Text(-0.5769789816420777, 0.9365336378066038, 'Australia'),
Text(-0.9563458663836943, 0.5435095066793416, 'Canada'),
Text(-1.055442282845914, -0.3099057721001753, 'Australia'),
Text(0.35694595379052513, -1.040475653762534, 'New Zealand')])
```



```
In [11]: pip install Ipython
```

```
Requirement already satisfied: Ipython in c:\users\ashac\anaconda3\lib\site-packages (8.2.0)
Requirement already satisfied: decorator in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (5.1.1)
Requirement already satisfied: matplotlib-inline in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.1.2)
Requirement already satisfied: colorama in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.4.4)
Requirement already satisfied: setuptools>=18.5 in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (61.2.0)
Requirement already satisfied: jedi>=0.16 in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.18.1)
Requirement already satisfied: pickleshare in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.7.5)
Requirement already satisfied: backcall in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.2.0)
Requirement already satisfied: traitlets>=5 in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (5.1.1)
Requirement already satisfied: prompt-toolkit!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0 in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (3.0.20)
Requirement already satisfied: stack-data in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (0.2.0)
Requirement already satisfied: pygments>=2.4.0 in c:\users\ashac\anaconda3\lib\site-packages (from Ipython) (2.11.2)
Requirement already satisfied: parso<0.9.0,>=0.8.0 in c:\users\ashac\anaconda3\lib\site-packages (from jedi>=0.16->Ipython) (0.8.3)
Requirement already satisfied: wcwidth in c:\users\ashac\anaconda3\lib\site-packages (from prompt-toolkit!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0->Ipython) (0.2.5)
Requirement already satisfied: pure-eval in c:\users\ashac\anaconda3\lib\site-packages (from stack-data->Ipython) (0.2.2)
Requirement already satisfied: asttokens in c:\users\ashac\anaconda3\lib\site-packages (from stack-data->Ipython) (2.0.5)
Requirement already satisfied: executing in c:\users\ashac\anaconda3\lib\site-packages (from stack-data->Ipython) (0.8.3)
Requirement already satisfied: six in c:\users\ashac\anaconda3\lib\site-packages (from asttokens->stack-data->Ipython) (1.16.0)
Note: you may need to restart the kernel to use updated packages.
```

```
In [19]: import IPython
```

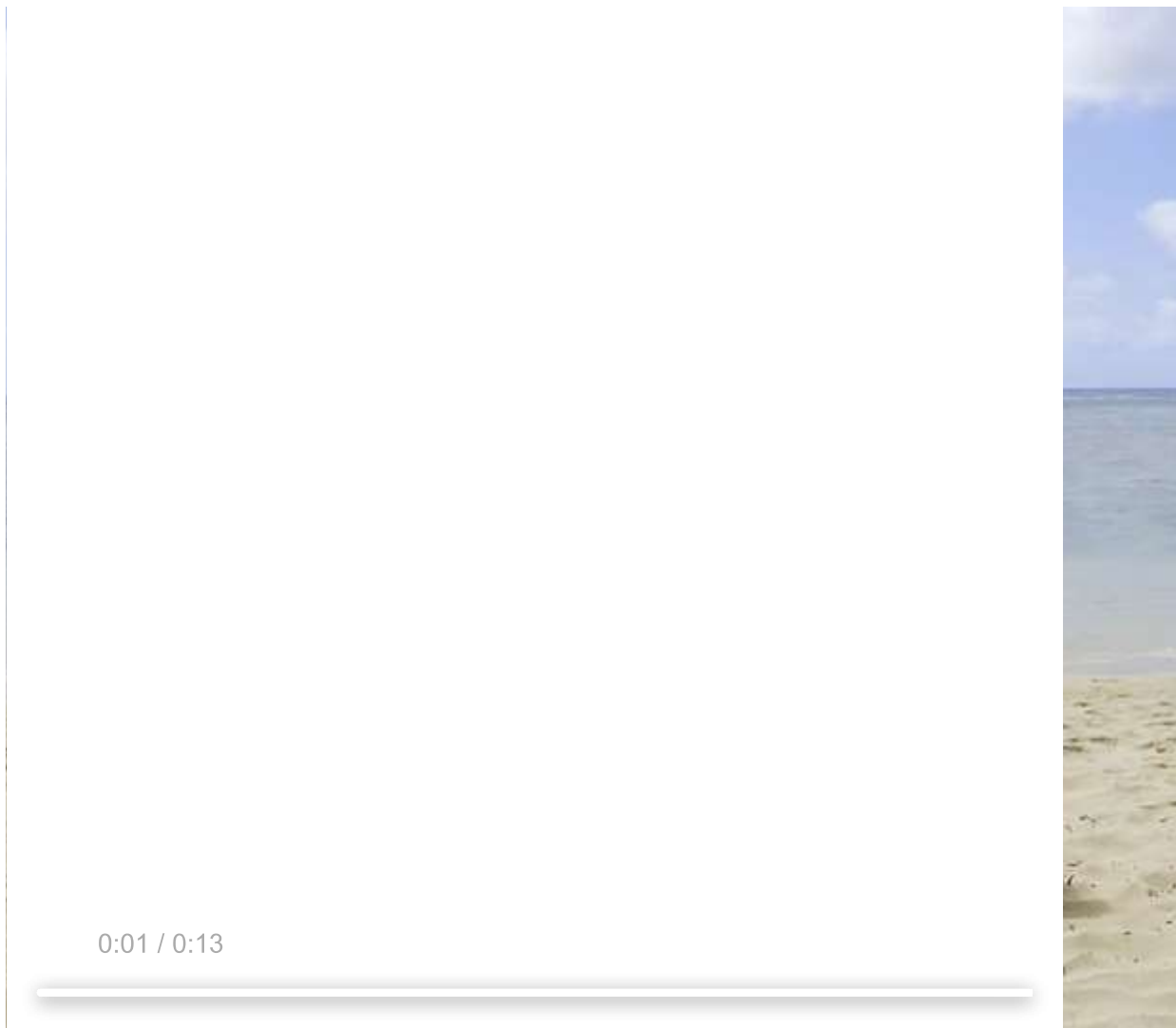
```
In [20]: IPython.display.Audio("audio.mp3")
```

```
Out[20]:
```

0:01 / 1:45

```
In [22]: from IPython.display import Video  
Video("videosample.mp4")
```

Out[22]:



## Textfile

```
In [23]: f=open('textfile.txt','r')  
f.read()
```

Out[23]: 'Im Asha Belcilda.Completed my UG at Bishop heber college.'