

In [13]:

```
#read an entire text file
f=open("D:\\piano.txt","r")
print(f.read())
```

The piano is a stringed keyboard instrument.  
pianos can be broken down into three types of categories  
1 GRAND PIANOS  
2 UPRIGHT PIANOS  
3 DIGITAL PIANOS  
piano is the easiest intrument to learn by anyone.

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In [14]:

```
#read the first n lines of a file
f=open("D:\\piano.txt","r")
print(f.readline())
```

The piano is a stringed keyboard instrument.

In [15]:

```
#append text to file and display the text.
f=open("D:\\piano.txt","a")
f.write("some pianos have more than 88 keys.")
f.close()
f=open("D:\\piano.txt","r")
print(f.read())
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In [3]:

```
#Given a csv file or excel file to read it into a data frame and display it.
import pandas as pd
a=pd.read_csv("D:\\passport.csv")
b=pd.DataFrame(a)
print(b)
```

S.NO	NAME	GENDER	ADDRESS	PASSPORT	LICENSE
0	joel	M	vizag	yes	yes
1	ram	M	hyderabad	yes	no
2	kalyan	M	vijayawada	no	yes
3	pallavi	F	kadapa	no	no
4	lasya	F	chennai	yes	yes
5	manisha	F	bangalore	yes	yes
6	akhil	M	mumbai	yes	yes

In [2]:

```
#given a data frame, select rows based on a condition
import pandas as pd
a={
    "restaurants":["mandi","helapuri","muntaj"],
    "rating":[4, 3, 4 ]
}
b=pd.DataFrame(a)
print(b.loc[[0,1]])
```

	restaurants	rating
0	mandi	4
1	helapuri	3

In [37]:

```
#given is a dataframe showing the name,occupation,salary of people.
import pandas as pd
a={
    "names":["Dileep","sai","aditya","siva"],
    "occ":["engineer","employee","doctor","lecturer"],
    "salary":[100000,90000,200000,60000]
}
b=pd.DataFrame(a)
average=b.groupby('occ')['salary'].mean()
print(average)
```

occ	salary
doctor	200000.0
employee	90000.0
engineer	100000.0
lecturer	60000.0

Name: salary, dtype: float64

In [4]:

```
#write a pandas program to read specific columns from a given excel file.  
import pandas as pd  
a=pd.read_csv("D:\\passport.csv")  
print(a.head(3))
```

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0	1	joel	M	vizag	yes	yes
1	2	ram	M	hyderabad	yes	no
2	3	kalyan	M	vijayawada	no	yes

In [ ]:

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