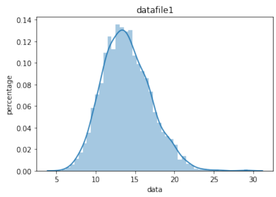
Question1

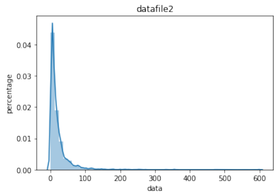
In [2]:
```
import pandas as pd

import numpy as np
import seaborn as sns
import pylab as py
import matplotlib.pyplot as plt
```

In [3]:
```
df1 = pd.read_csv (r'datafile1.csv')
df2 = pd.read_csv (r'datafile2.csv')
df3 = pd.read_csv (r'datafile3.csv')
df4 = pd.read_csv (r'datafile4.csv')
X1 = np.array(df1)
X2 = np.array(df2)
X3 = np.array(df3)
X4 = np.array(df4)
```

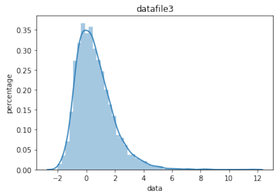
In [4]:
```
py.figure(1)
sns.distplot(X1,hist=True)
plt.title("datafile1")
plt.xlabel("data")
plt.ylabel("percentage")
py.show()

print("Datafile1.csv")
print ("Max  :",np.nanmax(X1))
print ("Min  :",np.nanmin(X1))
print ("Mean :",np.nanmean(X1))

py.figure(2)
sns.distplot(X2,hist=True)
plt.title("datafile2")
plt.xlabel("data")
plt.ylabel("percentage")
py.show()

print("Datafile2.csv")
print ("Max  :",np.nanmax(X2))
print ("Min  :",np.nanmin(X2))
print ("Mean :",np.nanmean(X2))

py.figure(3)
sns.distplot(X3,hist=True)
plt.title("datafile3")
plt.xlabel("data")
plt.ylabel("percentage")
py.show()

print("Datafile3.csv")
print ("Max  :",np.nanmax(X3))
print ("Min  :",np.nanmin(X3))
print ("Mean :",np.nanmean(X3))

py.figure(4)
sns.distplot(X4,hist=True)
plt.title("datafile4")
plt.xlabel("data")
plt.ylabel("percentage")
py.show()

print("Datafile4.csv")
print ("Max  :",np.nanmax(X4))
print ("Min  :",np.nanmin(X4))
print ("Mean :",np.nanmean(X4))
```



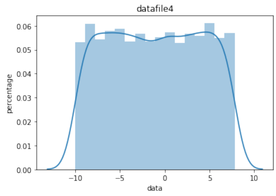

```
Datafile1.csv
Max  : 29.331484784866785
Min  : 5.7206034074914465
Mean : 13.934630800804896
```




```
Datafile2.csv
Max  : 599.4140066429803
Min  : 0.1922693437904892
Mean : 20.96145356793556
```

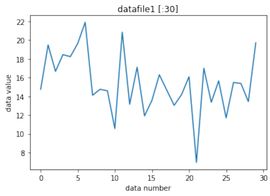


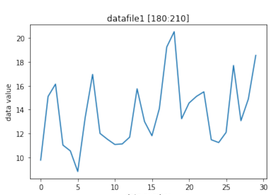

```
Datafile3.csv
Max  : 11.617002254309 31
Min  : -1.9985065983881 04
Mean : 0.6060478068625623
```




```
Datafile4.csv
Max  : 7.796485169485952
Min  : -9.999095272868287
Mean : -1.0911807451459632
```

In [37]:
```
X11 = X1[0:30]
X12 = X1[180:210]

plt.plot(X11)
plt.xlabel("data number")
plt.ylabel("data value")
plt.title("datafile1 [:30]")
plt.show()

plt.plot(X12)
plt.xlabel("data number")
plt.ylabel("data value")
plt.title("datafile1 [180:210]")
plt.show()
```





In [ ]:

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