

## Assignments for data analysis packages

1. use -weather\_data\_cities.csv

draw a bar graph and pie chart

on x axis use city names

and on y axis use max of temperature

## 2. Numpy assignments

1. accept 20 numbers from user and store it in a list1, list2, list3, list4 (5 numbers in each list)  
then convert these list into 2 numpy array (list1, list2 in array1 and list3 and list4 in array2)

and find memberwise addition, multiplication, subtraction

also find exponential of first array

1. Store yearwise sales of 2 dealers for tv, freeze, mobiles, washing machines, AC and dishwashers for years (2001 to 2010)

Answer the following

- Find yearwise sales of each item by both the dealers
- Find yearwise sales of all items for each dealer
- Display sales of a particular year for each dealer
- Display sales of TV and freeze for each dealer

## 3. Day 5 (numpy, pandas, matplotlib, scipy)

1. Complete following program  
import pandas as pd

```
mymoviedata=pd.read_table("http://bit.ly/movieusers",sep="|",header=None)
print(mymoviedata.head())
```

```
# add headings to the column- sr.no, age, Gender, profession, Views
```

```
#display only column gender
```

```
#add col6 concatenate values of age and gender and separate them by :
```

```
# retrieve values of age and views display bar graph(hint : agewise grouping and find average views)
```

```
# retrieve values of profession and views display bar graph (use grouping)
```

2.

```
#create a list for storing year 2010 to 2014
```

```
#create a list for each year for storing sales amount for 5 products in each years
```

```
#draw pie chart and stack graph to compare sales
```

1. Yearly comparison

Year and max sale in each year

2. Draw separate graph for each year (5 different pie charts)

Product and average sale of that product