```
In [5]:    import pandas as pd
           from scipy import stats
```

```
In [4]:    data1 = pd.read_csv('Cars (2).csv',sep=',')
           data1.head()
```

Out[4]:

	HP	MPG	VOL	SP	WT
0	49	53.700681	89	104.185353	28.762059
1	55	50.013401	92	105.461264	30.466833
2	55	50.013401	92	105.461264	30.193597
3	70	45.696322	92	113.461264	30.632114
4	53	50.504232	92	104.461264	29.889149

1 .P(MPG>38)

```
In [7]:    y = data1['MPG'].mean()
           y
```

Out[7]: 34.422075728024666

```
In [9]:    z = data1['MPG'].std()
           z
```

Out[9]: 9.131444731795982

```
In [11]:   1 - stats.norm.cdf(x=38,loc=34,scale=9)
```

Out[11]: 0.3283606432818853

2. P(MPG<40)

```
In [13]:   stats.norm.cdf(x=40,loc=34,scale=9)
```

Out[13]: 0.7475074624530771

3. P (20<MPG<50)

```
In [14]:   stats.norm.cdf(x=50,loc=34,scale=9) - stats.norm.cdf(x=20,loc=34,scale=9)
```

Out[14]: 0.9023729130838278