In [1]:
```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.preprocessing import scale
```

In [2]:
```
var=pd.read_csv('C://Users/Gopi/Desktop/machine learning/csv files/mba.csv')
```

In [31]:
```
var.describe()
```

Out[31]:

	Datasrno	workex	gmat
count	773.00000	773.00000	773.000000
mean	387.00000	57.50194	711.164295
std	223.29017	27.38682	29.339714
min	1.00000	9.00000	600.000000
25%	194.00000	41.00000	690.000000
50%	387.00000	52.00000	710.000000
75%	580.00000	69.00000	730.000000
max	773.00000	279.00000	780.000000

In [45]:
```
var.shape
```

Out[45]:
```
(773, 3)
```

In [35]:
```
var.describe().transpose()
```

Out[35]:

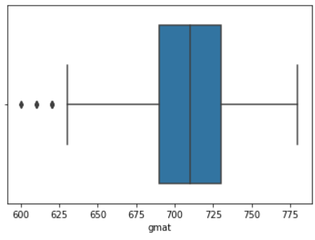
	count	mean	std	min	25%	50%	75%	max
Datasrno	773.0	387.000000	223.290170	1.0	194.0	387.0	580.0	773.0
workex	773.0	57.501940	27.386820	9.0	41.0	52.0	69.0	279.0
gmat	773.0	711.164295	29.339714	600.0	690.0	710.0	730.0	780.0

In [36]:
```
ranges= max(var['workex'])-min(var['workex'])
ranges
```

Out[36]:
```
270
```

In [42]:
```
sns.boxplot(var['gmat'])
```

Out[42]:
```
<matplotlib.axes._subplots.AxesSubplot at 0xb88d748>
```



In [11]:
```
q1=var['gmat'].quantile(0.25)
q1
```

Out[11]:
```
690.0
```

In [12]:
```
q3=var['gmat'].quantile(0.75)
q3
```

Out[12]:
```
730.0
```

In [13]:
```
iqr=q3-q1
iqr
```

Out[13]:
```
40.0
```

In [14]:
```
low=q1-(1.5*iqr)
low
```

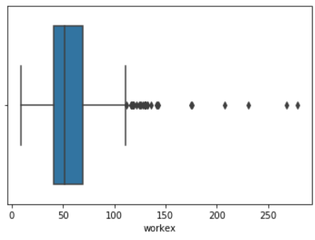
Out[14]:
```
630.0
```

In [15]:
```
high=q3-(1.5*iqr)
high
```

Out[15]:
```
670.0
```

In [41]:
```
sns.boxplot(var['workex'])
```

Out[41]:
```
<matplotlib.axes._subplots.AxesSubplot at 0xb81f4c8>
```



In [3]:
```
q11=var['workex'].quantile(0.25)
q11
```

Out[3]:
```
41.0
```

In [4]:
```
q33=var['workex'].quantile(0.75)
q33
```

Out[4]:
```
69.0
```

In [5]:
```
iqr1=q33-q11
iqr1
```

Out[5]:
```
28.0
```

In [6]:
```
low1=q11-(1.5*iqr1)
low1
```

Out[6]:
```
-1.0
```

In [7]:
```
high1=q33-(1.5*iqr1)
high1
```

Out[7]:
```
27.0
```

In [17]:
```
var1 = var.loc[(var['gmat'] > low) & (var['gmat'] < high)]
var1.head()
```

Out[17]:

	Datasrno	workex	gmat
1	2	107	640
5	6	136	660
6	7	70	660
12	13	72	650
20	21	175	660

In [18]:
```
var1.shape
```

Out[18]:
```
(37, 3)
```

In [19]:
```
var.shape
```

Out[19]:
```
(773, 3)
```