Analysis Of Land Used in Pakistan

Agricultural Vs Other Land

In [1]:
```
import numpy as np
import pandas as pd
from numpy import *
import matplotlib.pyplot as pt
import seaborn as sns
```

In [2]:
```
land = pd.read_csv("land_used.csv")
```

In [3]:
```
land.head(3)
```

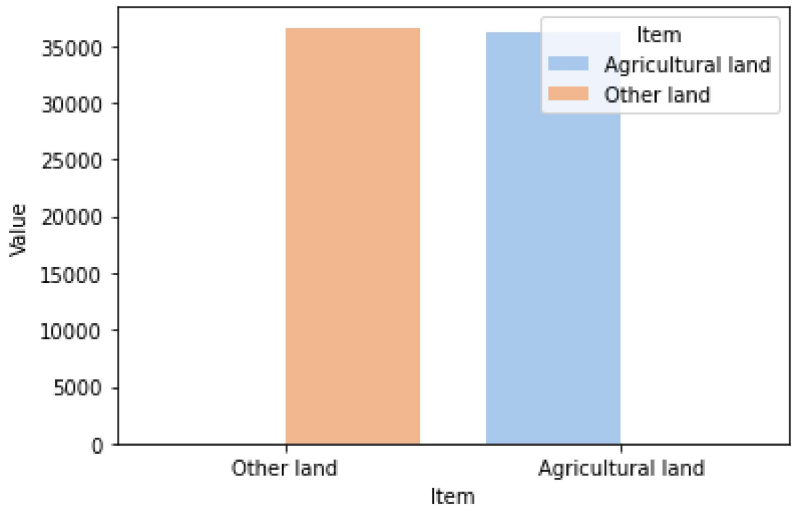
Out[3]:

	Domain Code	Domain	Area Code	Area	Element Code	Element	Item Code	Item	Year Code	Year	Unit	Value
0	RL	Land Use	165	Pakistan	5110	Area	6610	Agricultural land	1961	1961	1000 ha	35730.0
1	RL	Land Use	165	Pakistan	5110	Area	6610	Agricultural land	1962	1962	1000 ha	35840.0
2	RL	Land Use	165	Pakistan	5110	Area	6610	Agricultural land	1963	1963	1000 ha	35880.0

In [4]:
```
#Land.goupby (["Item",])

sns.barplot(x="Item",y="Value",data=land,hue = "Item", order =["Other land","Agricultur
            ci=None, saturation =0.8)
```

Out[4]:
```
<AxesSubplot:xlabel='Item', ylabel='Value'>
```



In [5]:
```
# now grouping values
land.groupby (["Item","Year"]).mean()
```

Out[5]:

Item	Year	Area Code	Element Code	Item Code	Year Code	Value
Agricultural land	**1961**	165.0	5110.0	6610.0	1961.0	35730.00
	1962	165.0	5110.0	6610.0	1962.0	35840.00
	1963	165.0	5110.0	6610.0	1963.0	35880.00
	1964	165.0	5110.0	6610.0	1964.0	36355.00
	1965	165.0	5110.0	6610.0	1965.0	37235.00
...	**...**	...	...	...	...	...
Other land	**2015**	165.0	5110.0	6670.0	2015.0	36953.40
	2016	165.0	5110.0	6670.0	2016.0	36425.76
	2017	165.0	5110.0	6670.0	2017.0	36235.08
	2018	165.0	5110.0	6670.0	2018.0	36979.42
	2019	165.0	5110.0	6670.0	2019.0	37020.76

89 rows × 5 columns

In [6]:
```
# now lets see for 2015 after stats
land[land["Year"]>2015].groupby(["Item","Year"]).mean().head(5)
```

Out[6]:

Item	Year	Area Code	Element Code	Item Code	Year Code	Value
Agricultural land	**2016**	165.0	5110.0	6610.0	2016.0	36794.00
	2017	165.0	5110.0	6610.0	2017.0	37003.00
	2018	165.0	5110.0	6610.0	2018.0	36300.00
	2019	165.0	5110.0	6610.0	2019.0	36300.00
Other land	**2016**	165.0	5110.0	6670.0	2016.0	36425.76

In [ ]:
```

```