Project 2 : Home Price Prediction

In [2]:

```
import pandas as pd
import matplotlib.pyplot as plt
```

In [3]:

```
df=pd.DataFrame({'Area':[100,200,300,400,500,600,700],'Price':[50,100,150,200,250,300,350]}
df
```

Out[3]:

	Area	Price
0	100	50
1	200	100
2	300	150
3	400	200
4	500	250
5	600	300
6	700	350

In [4]:

```
from sklearn import linear_model
```

In [5]:

```
reg= linear_model.LinearRegression()
reg.fit(df[['Area']],df.Price)
```

Out[5]:

```
LinearRegression()
```

In [6]:

```
reg.coef_
```

Out[6]:

```
array([0.5])
```

In [7]:

```
reg.score(df[['Area']],df.Price)
```

Out[7]:

```
1.0
```

In [8]:

```
reg.intercept_
```

Out[8]:

```
-8.526512829121202e-14
```

In [9]:

```
reg.predict([[1200]])
```

Out[9]:

```
array([600.])
```

In [10]:

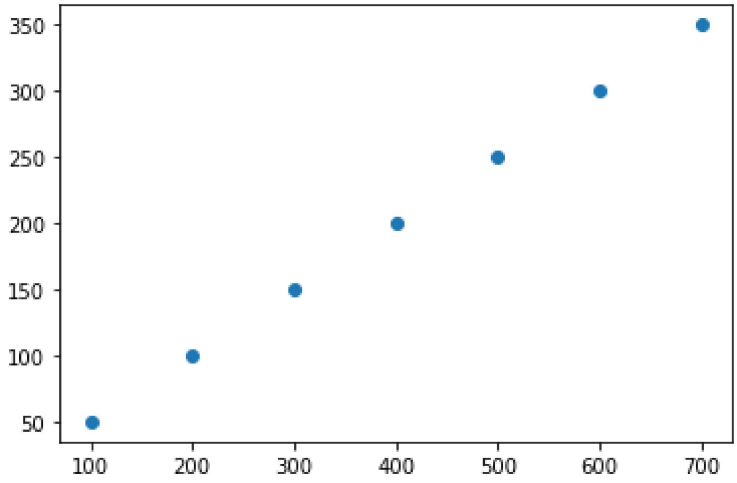
```
reg.predict([[1400]])
```

Out[10]:

```
array([700.])
```

In [12]:

```
plt.scatter(df['Area'],df['Price'])
plt.show()
```



In [ ]:

```

```