Names:	Mr.Sagar Narode Ms.Prachi Kulkarni Ms.Priya Shroff	

Prob Statement:	Predict the Yearly sunspot number based on the dataset that contains yearly sunspot number from 1700 to 1988.

Data:	https://vincentarelbundock.github.io/Rdatasets/datasets.html csv file ,Data include 2 columns

Tools:	Python	Library: pandas,numpy,matplotlib,warnings,statsmodels.api,sklearn.metrics,datetime,statsmodels.tsa.seasonal,statsmodels.tsa.arima_model,pmdarima

Model Comparison/Summary:		
Model	AIC	MAE
SimpleExpSmoothing	1542.542	
Holt ExponentialSmoothing	1534.058	
Holt WinterSmoothing	1526.616	
Auto Arima	2077.768	39.31
Arima model	2087.139	42.29
Sarimax	1227.161	20.01

Best Model:	Sarimax