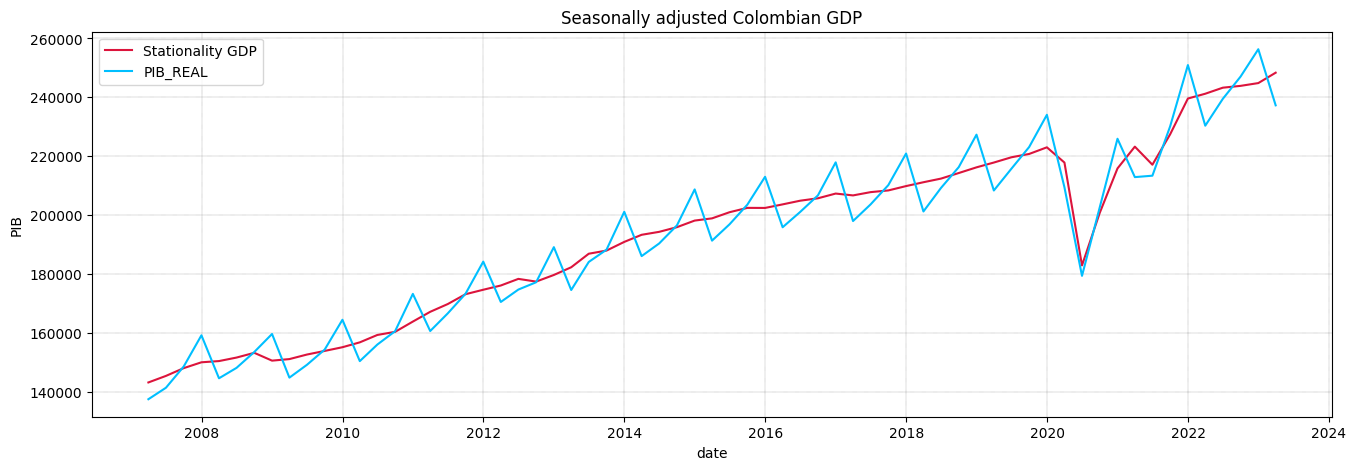
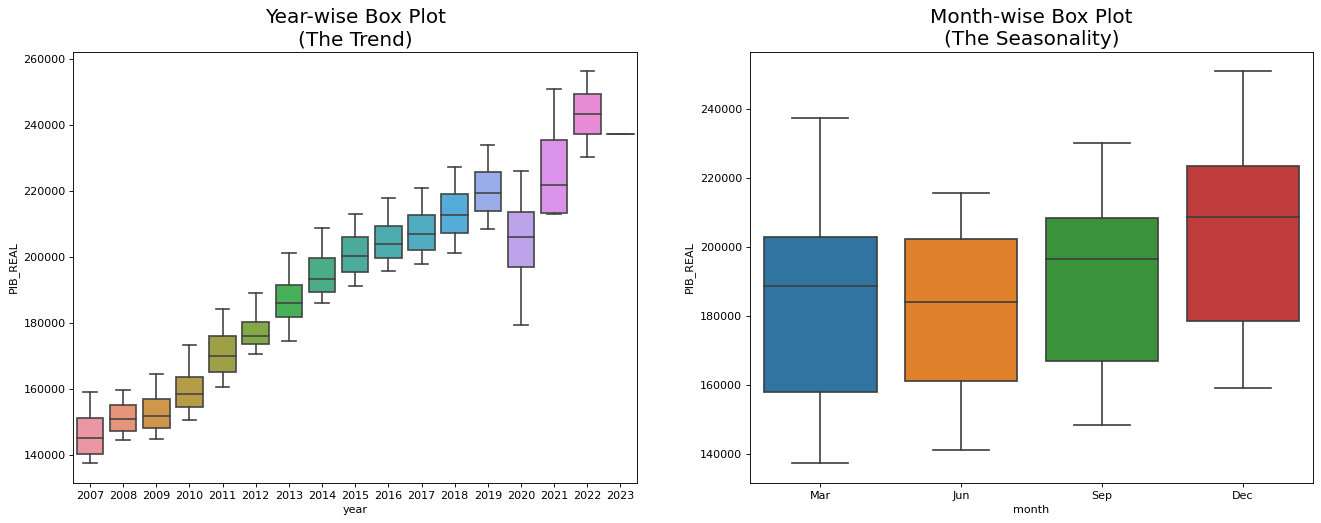
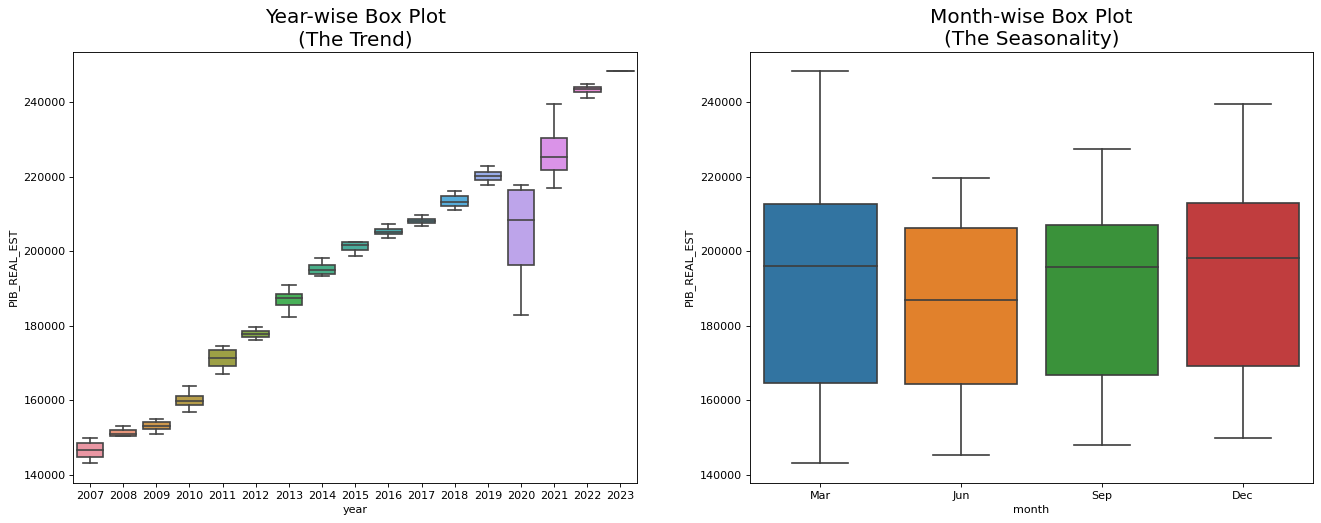
**Forecasting Univariado**

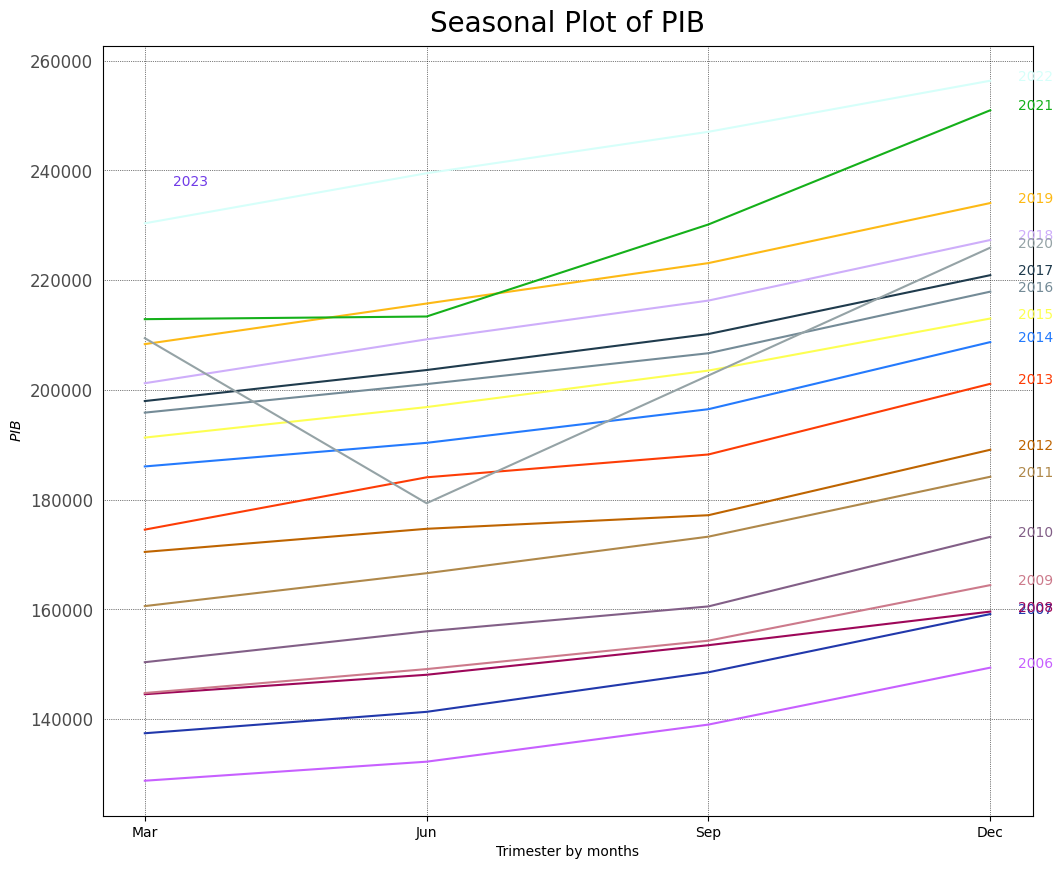


Variable PIB REAL

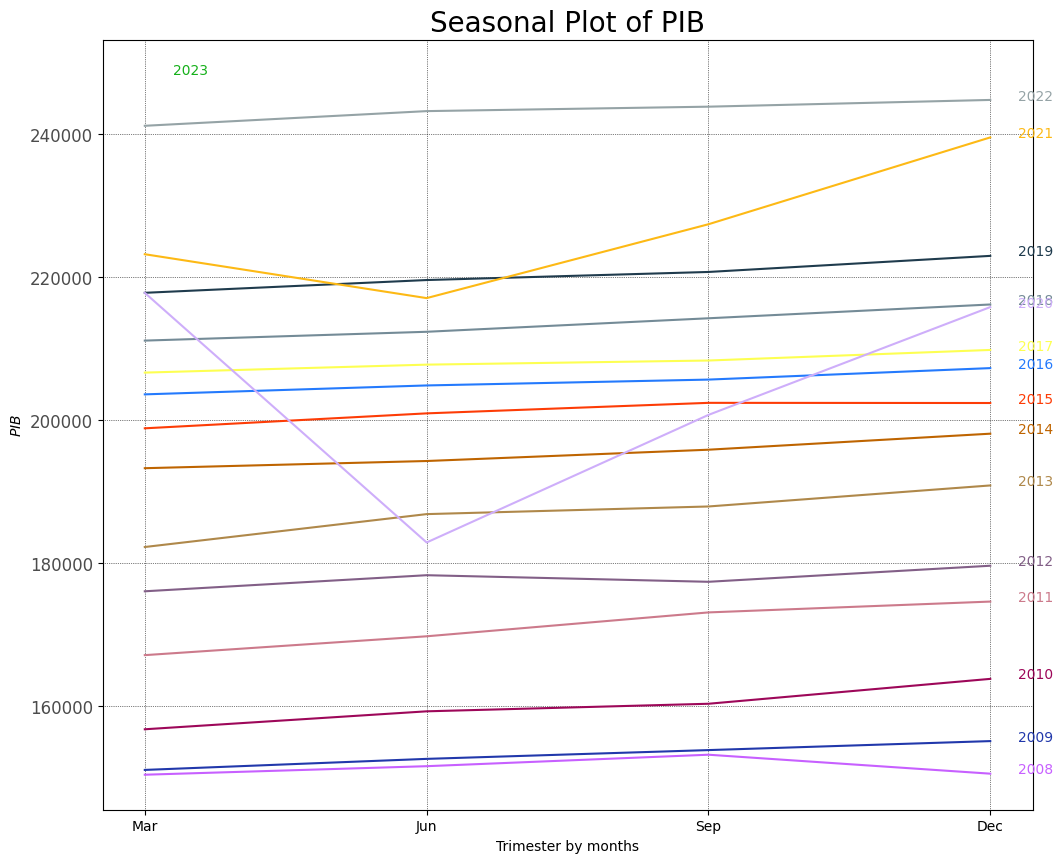


Variable PIP\_REAL\_EST

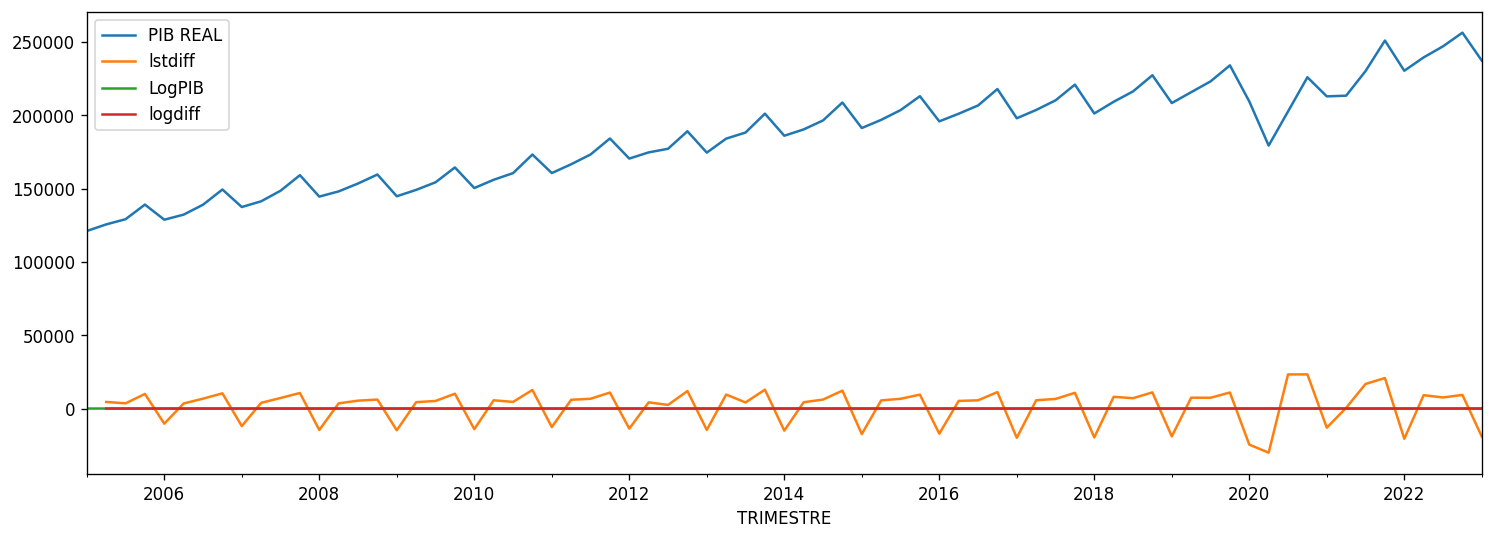




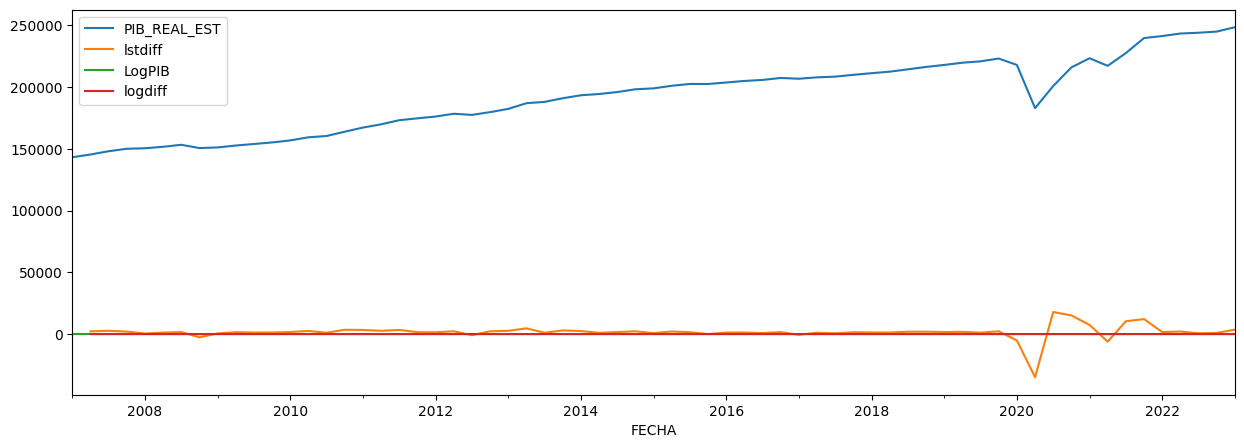
Desestacionalizada:



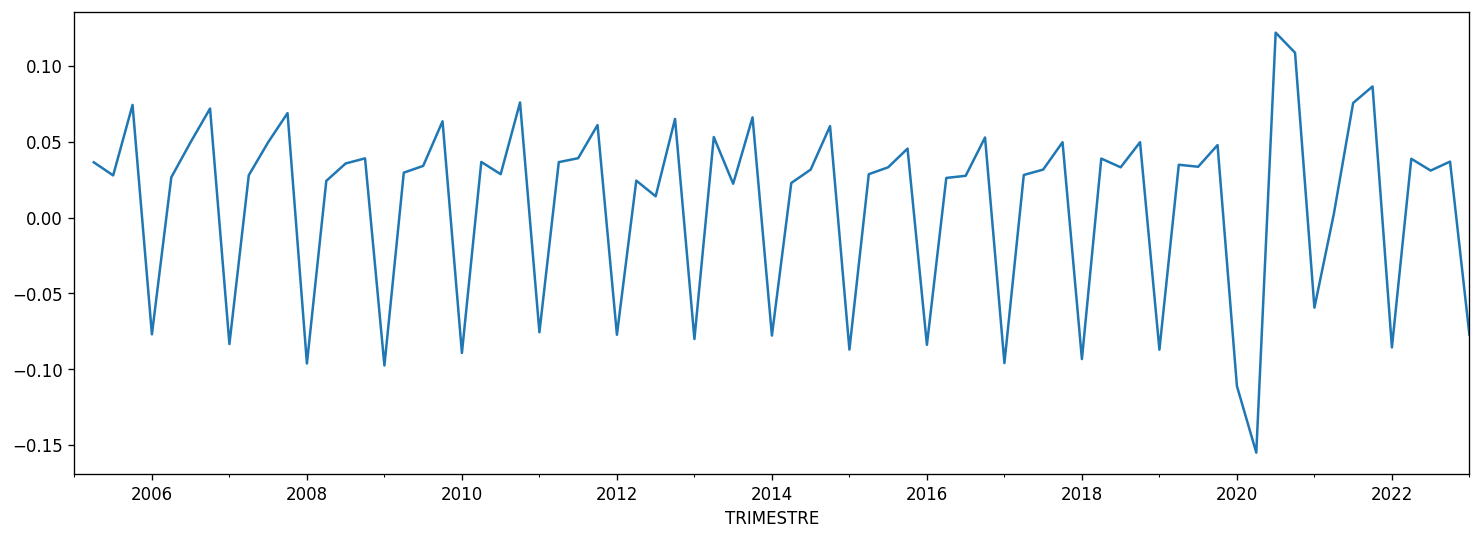
PIB REAL



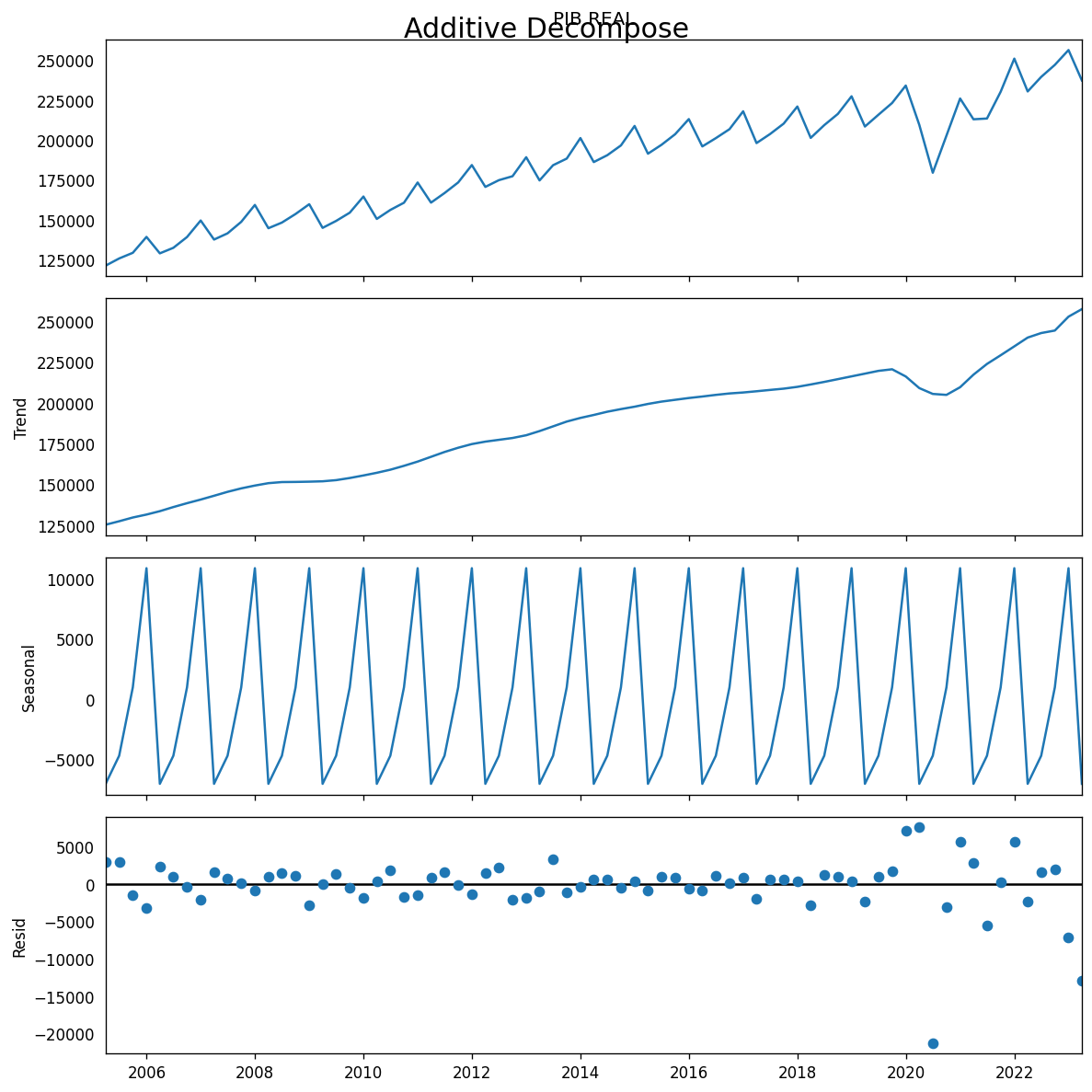
PIB REAL CON CORRECION ESTACIONAL

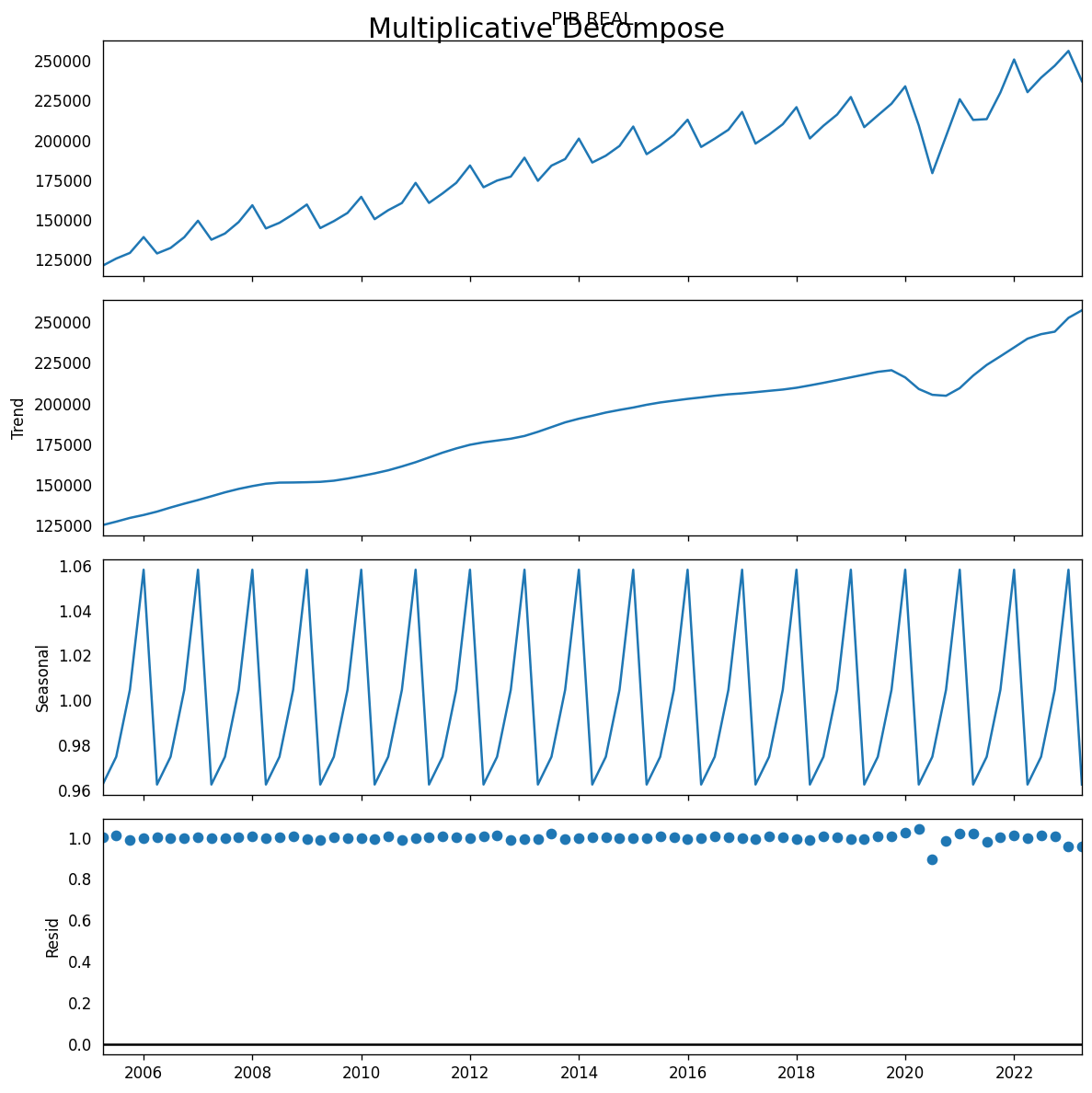


LOGDIFF PIB REAL

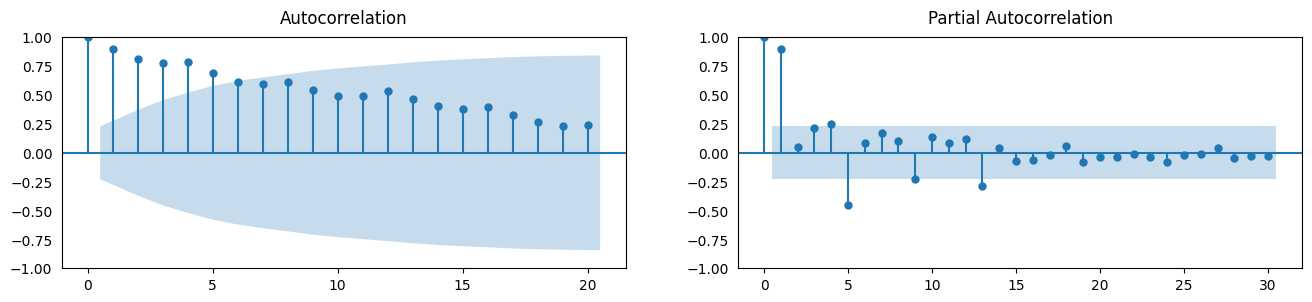


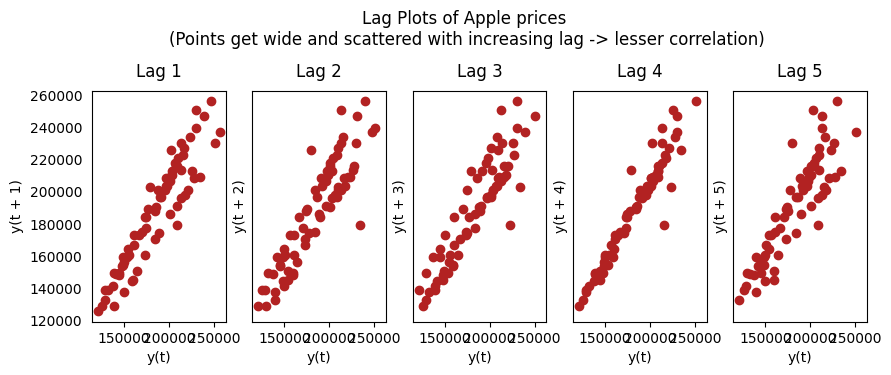
PIB REAL: UNIVARIADO



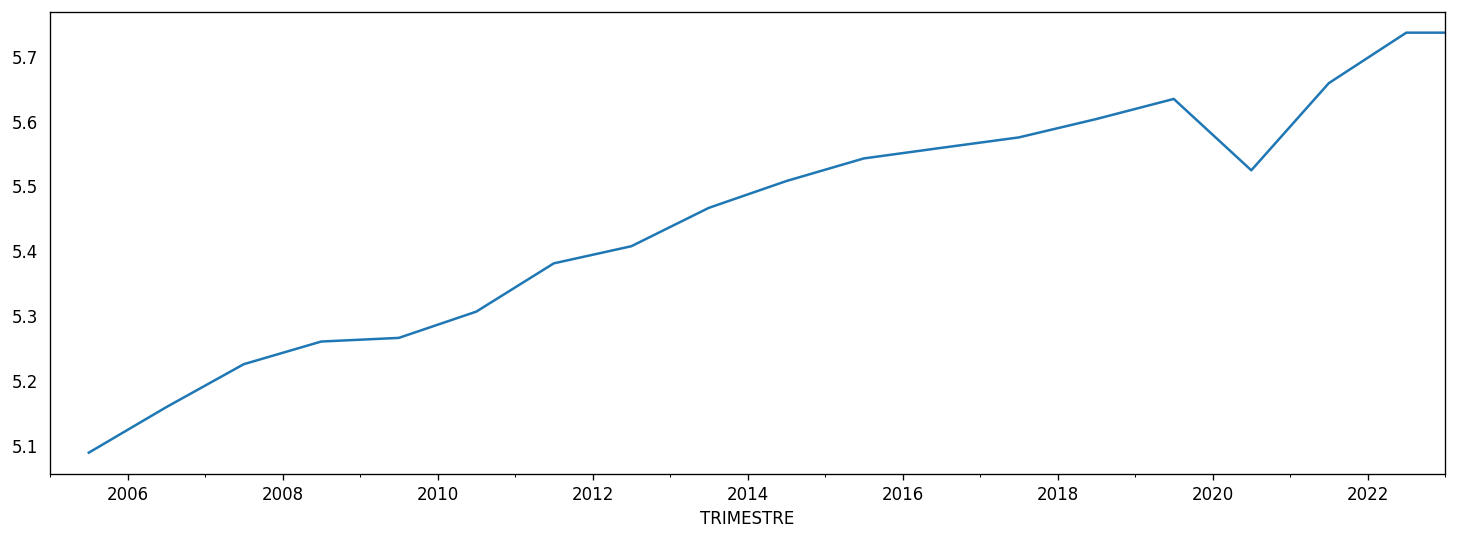


The residuals of the additive destruction behave in a more random way compared to the residuals of the multiplicative destruction, this suggests that the additive structure is a better representation of the series

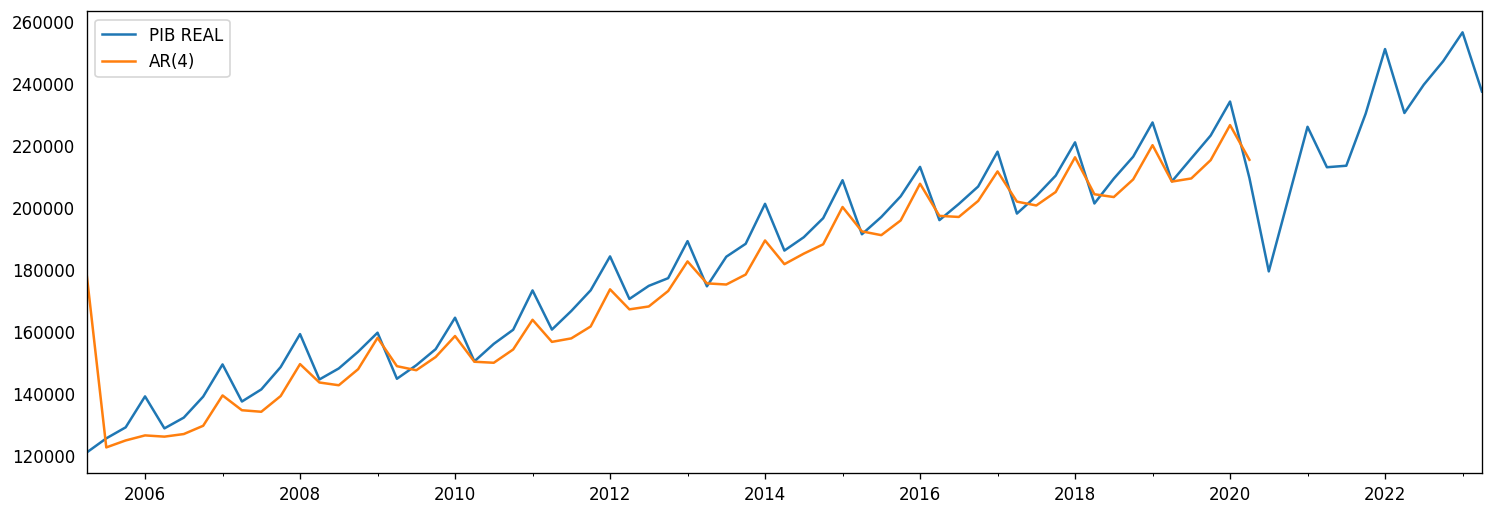


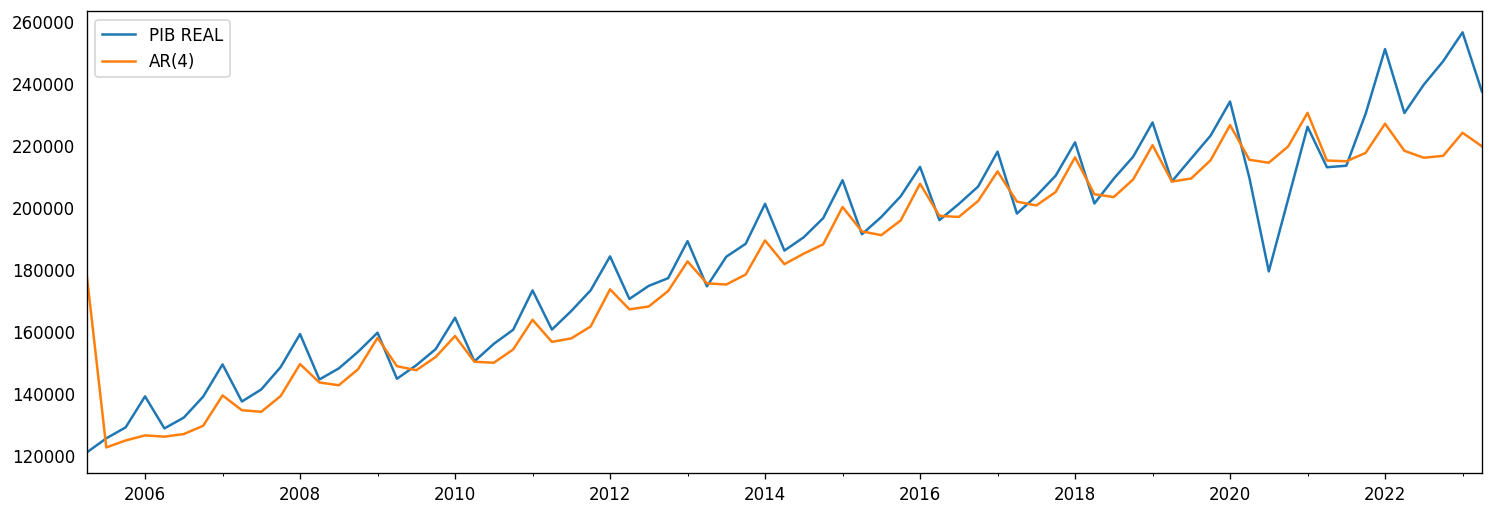


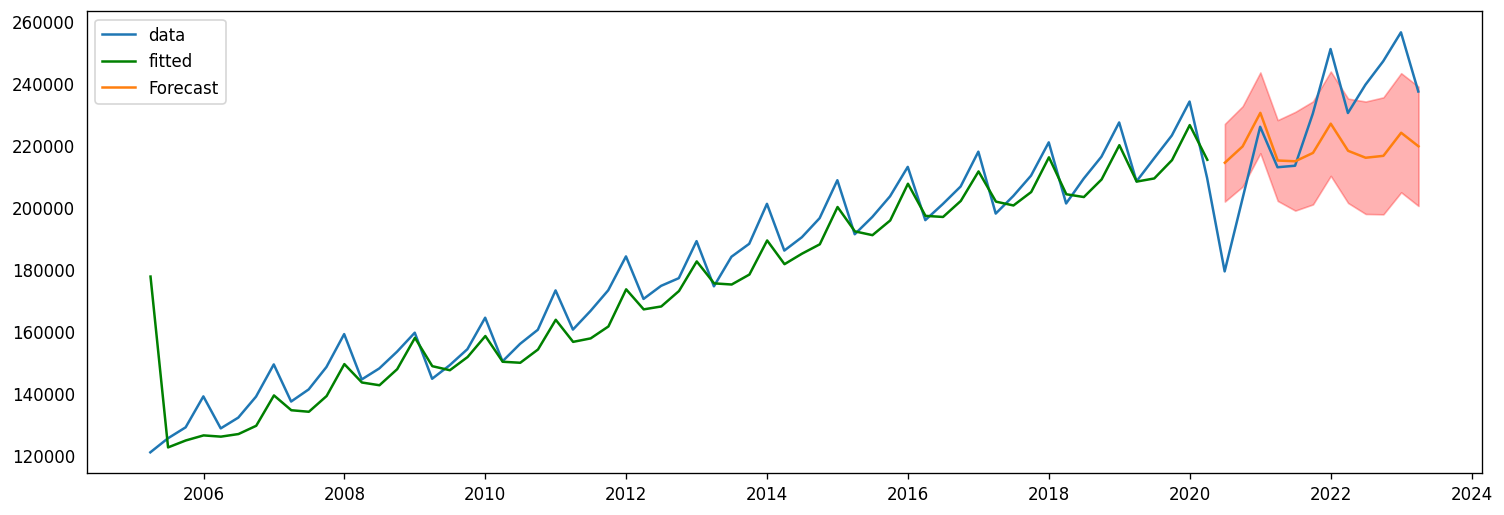
GRÁFICA AL INTERPOLAR LOS VALORES NULOS DEL LOGARITMO DE LA PARTE DELA SERIE SIN ESTACIONALIDAD SACADA DEL PIB REAL



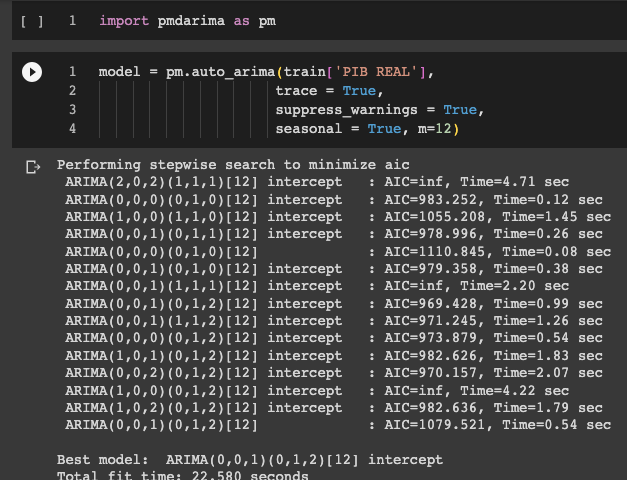
AR(4)

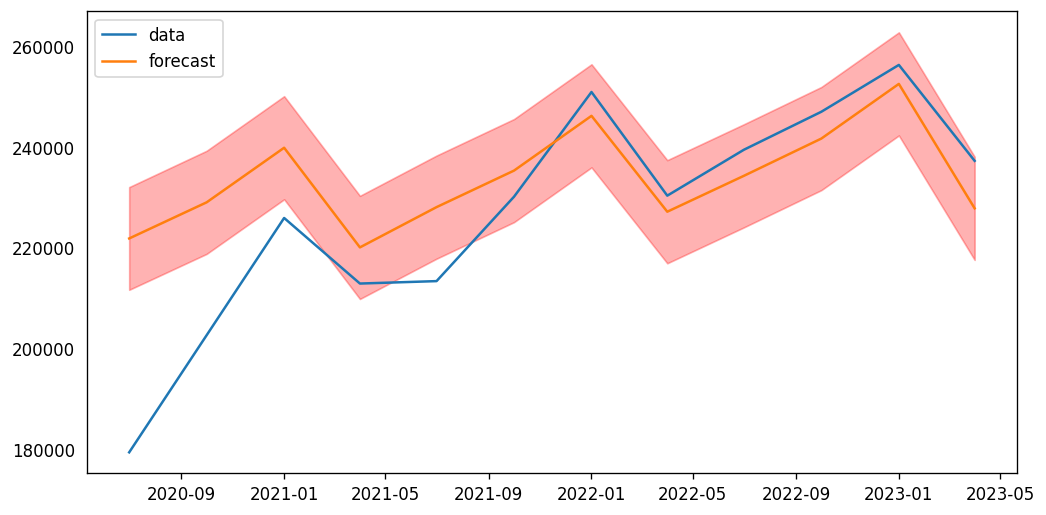


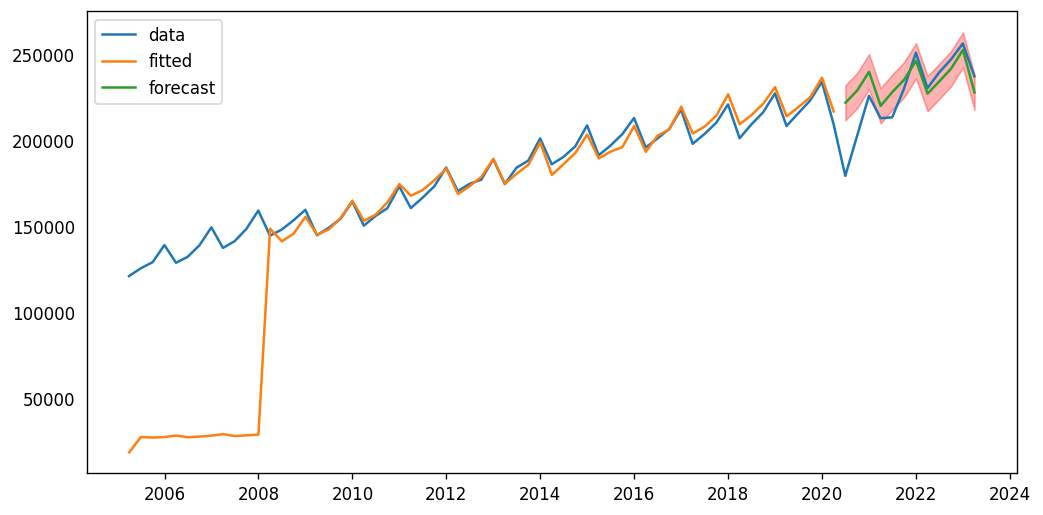


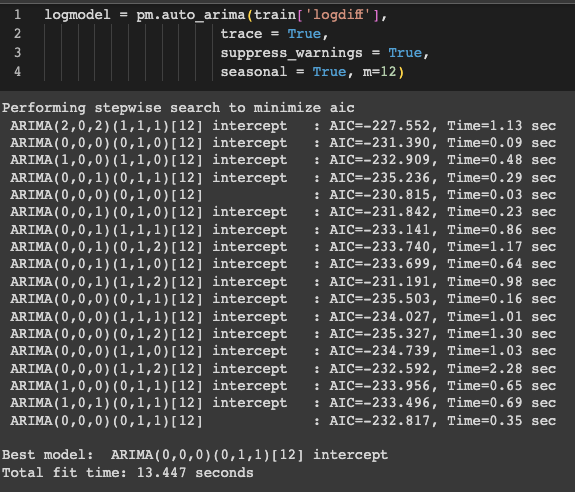


Usando SARIMA

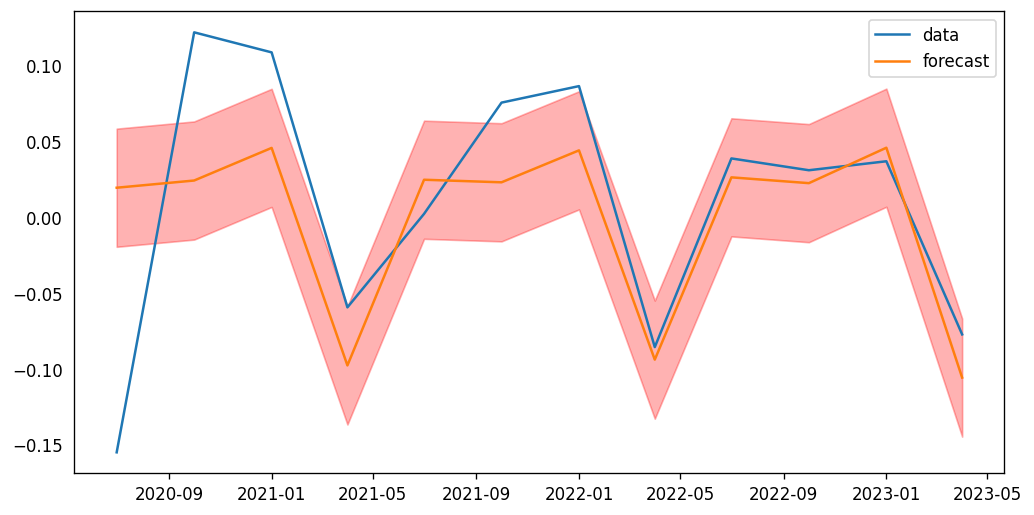


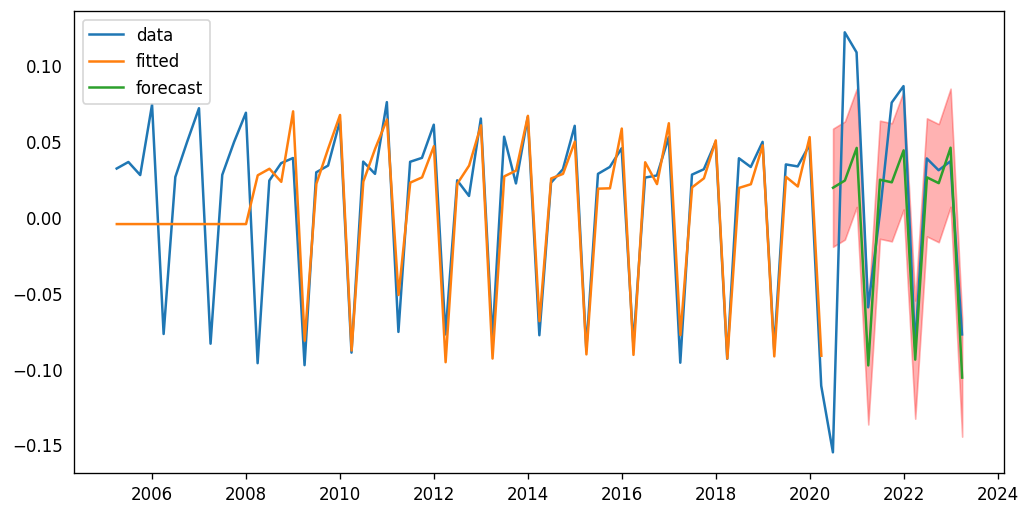


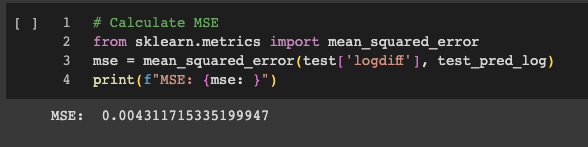




LOG DIFF GRAPH USANDO SARIMAX

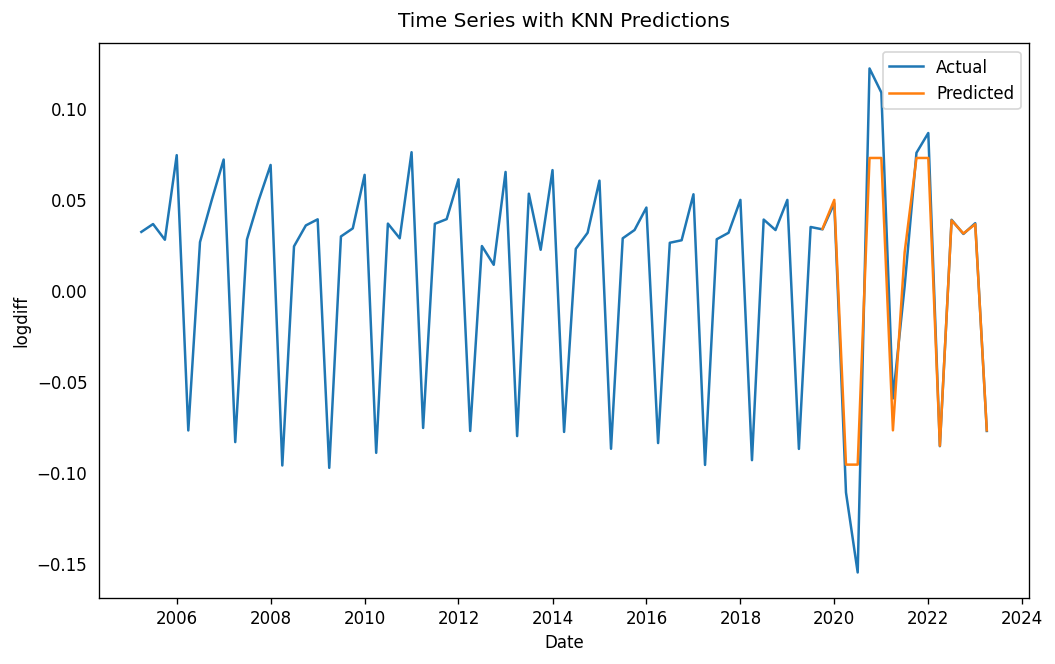


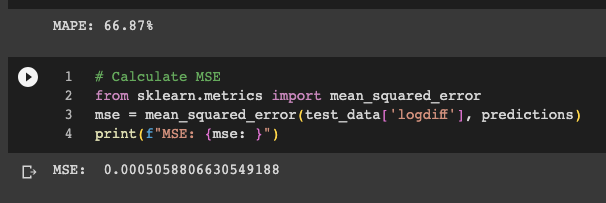




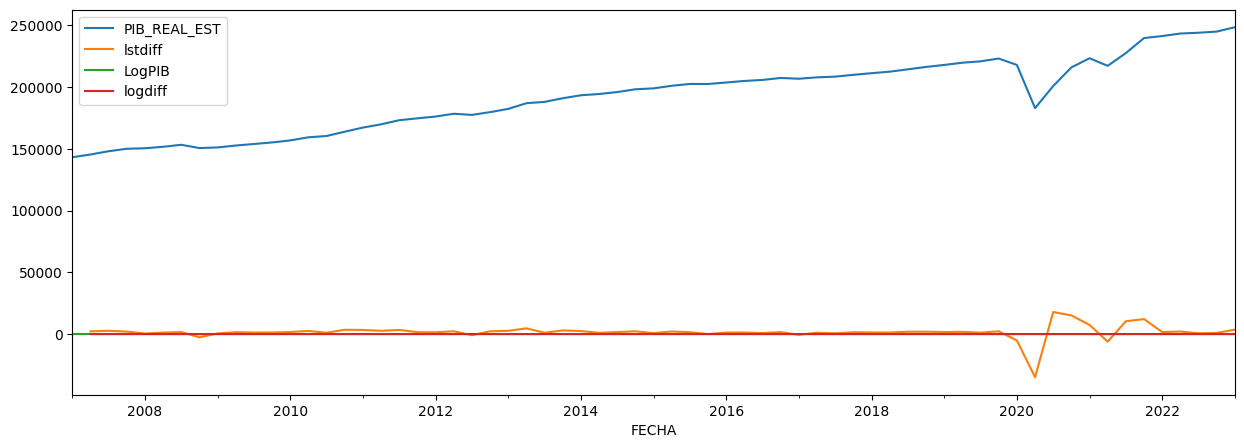
KNN UNIVARIADO:

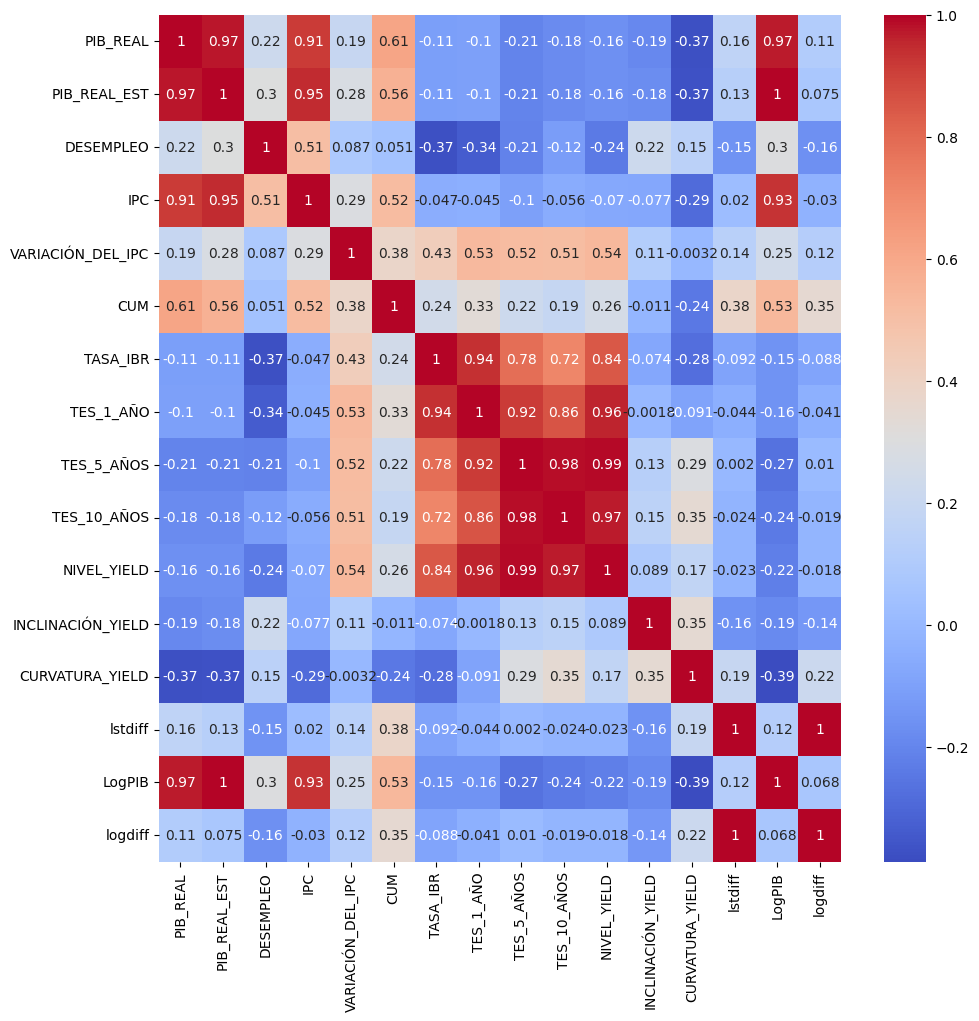
BEST K:2 BY CROSS VALIDATION

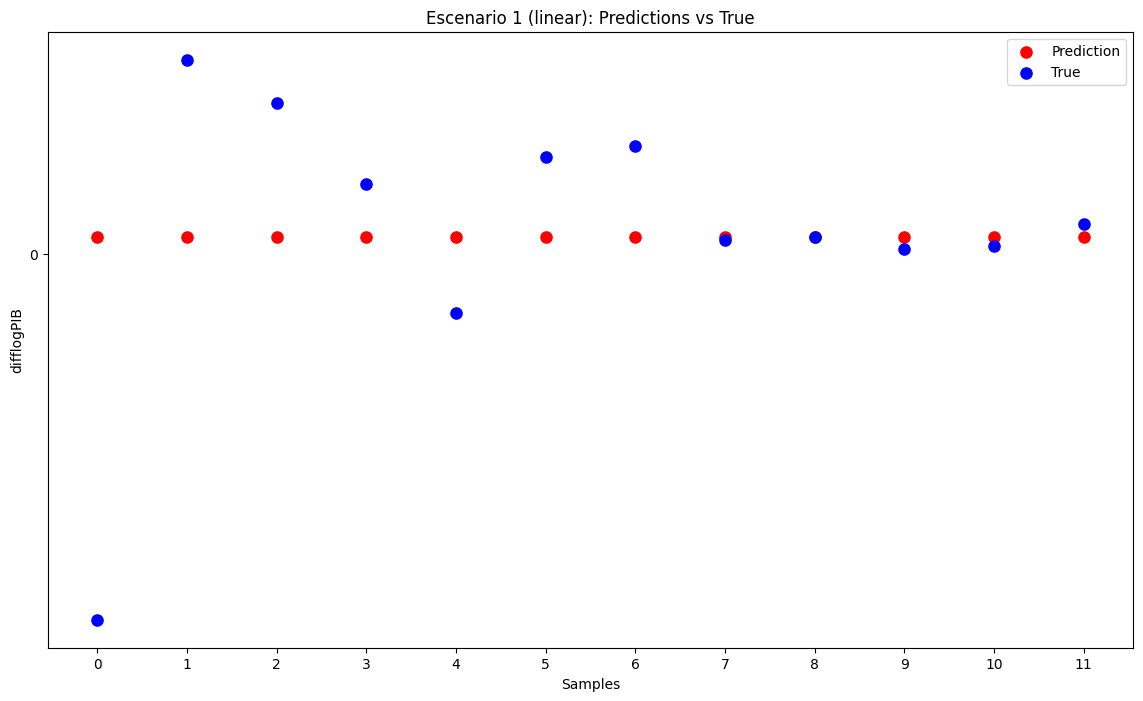


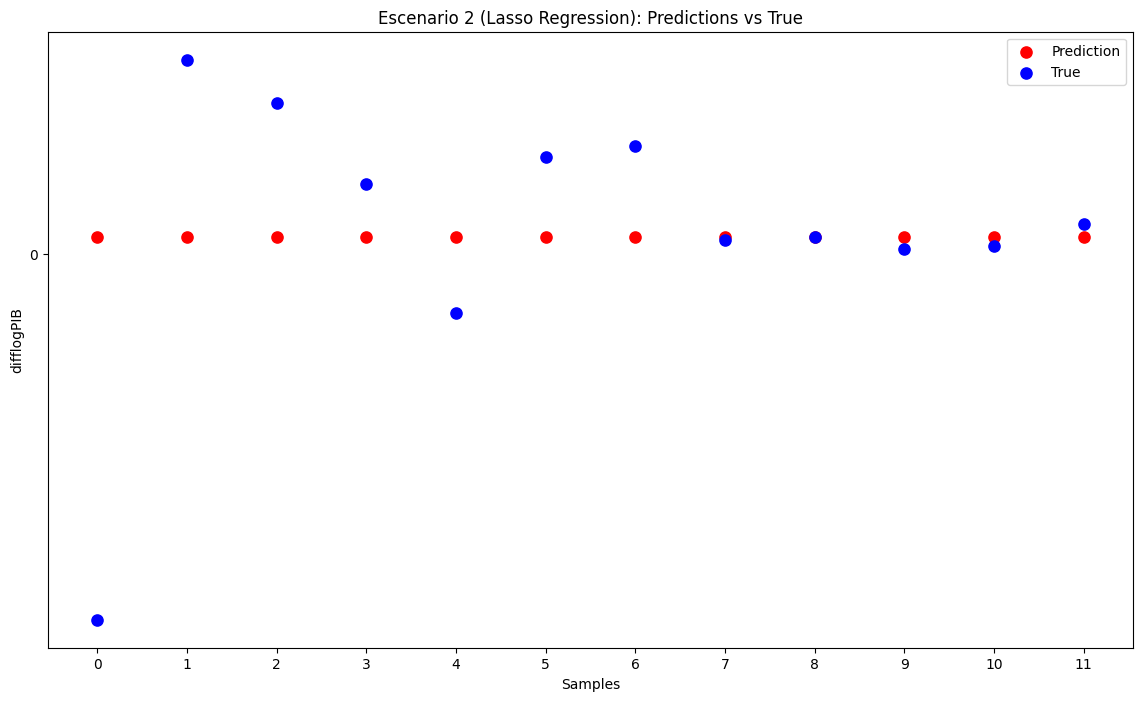


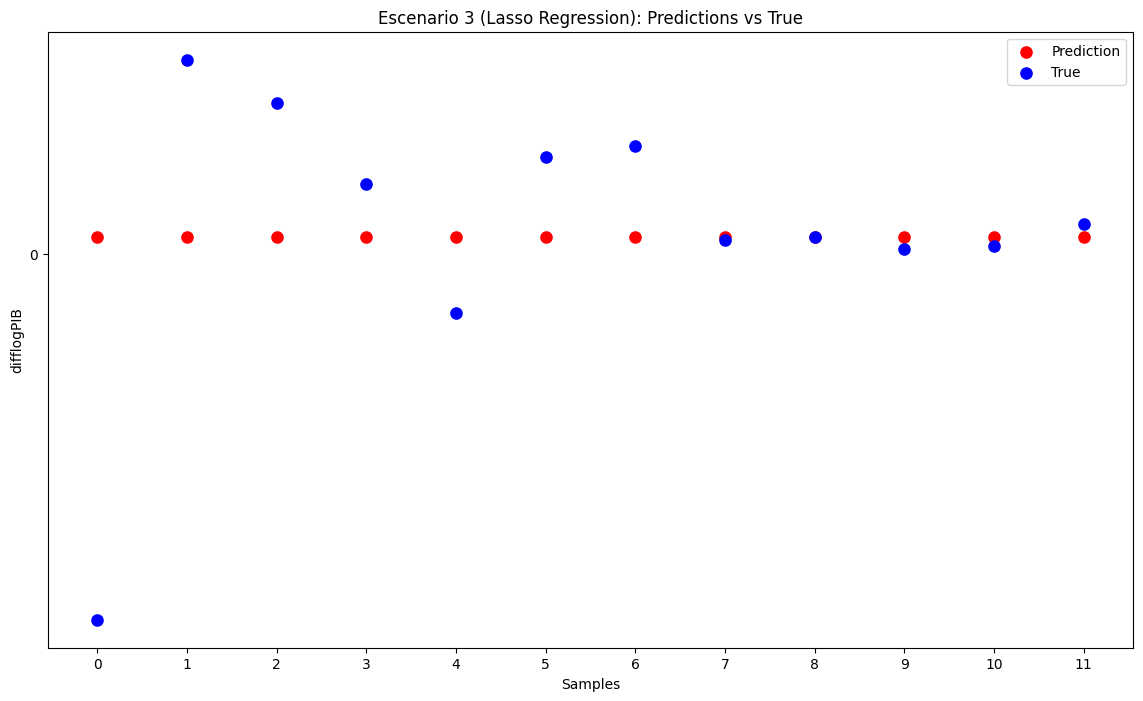
PIB REAL ESTACIONALIDAD CORREGIDA MULTIVARIABLES:

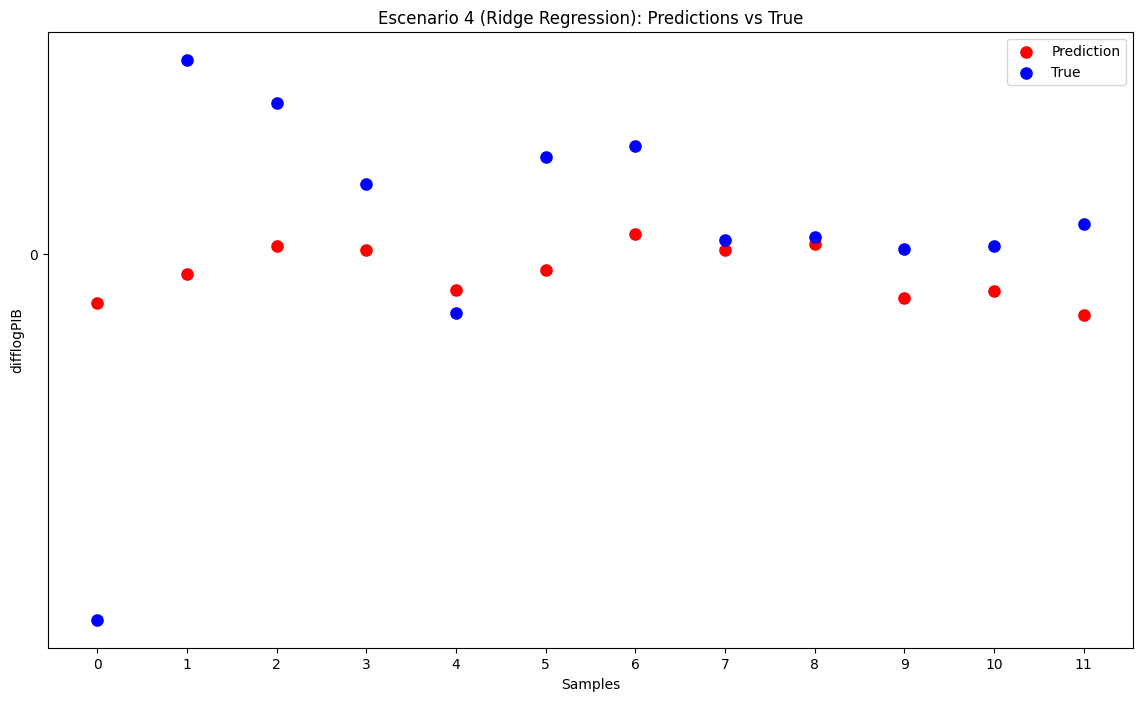


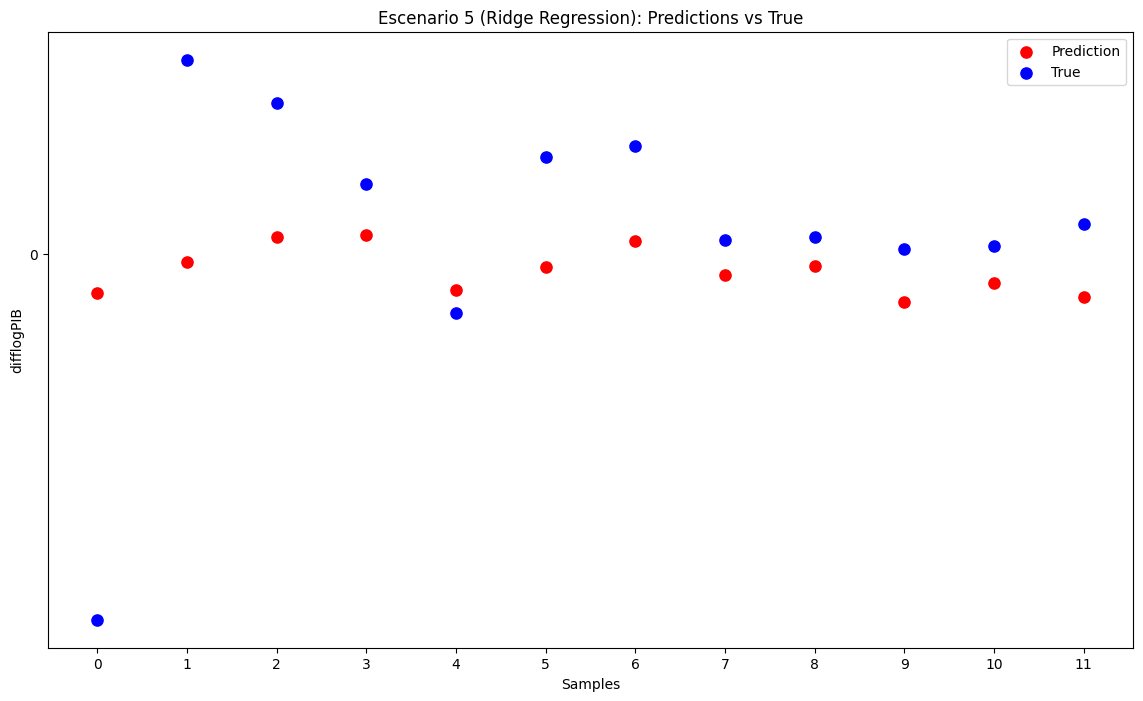


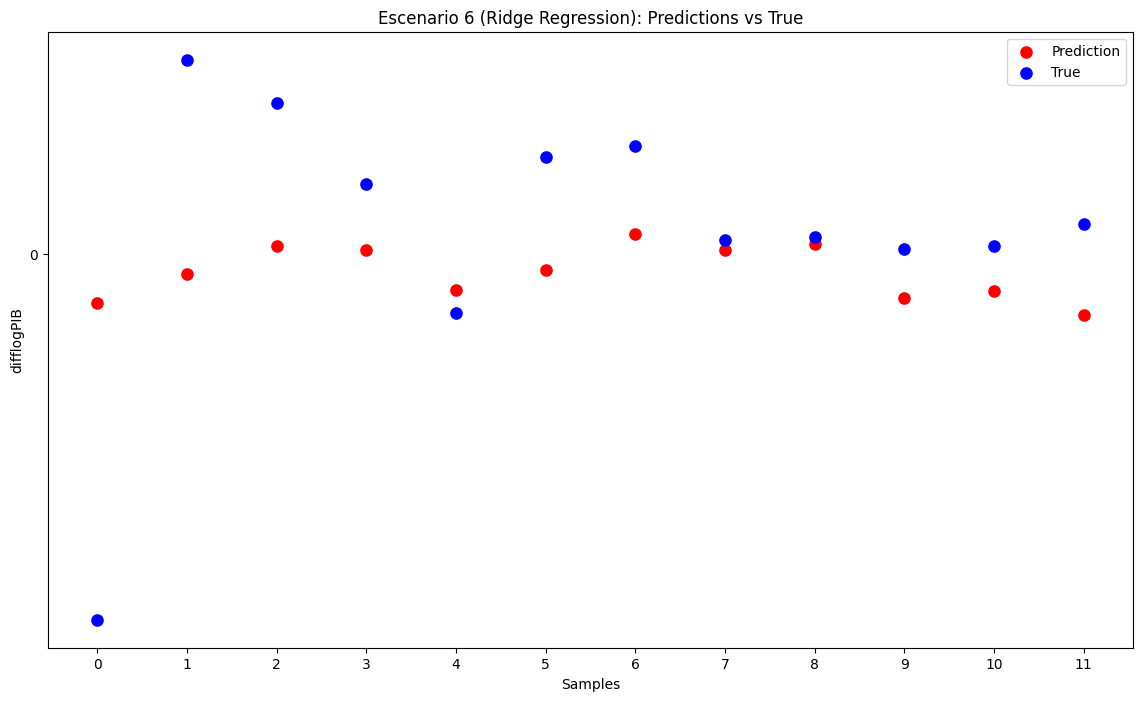


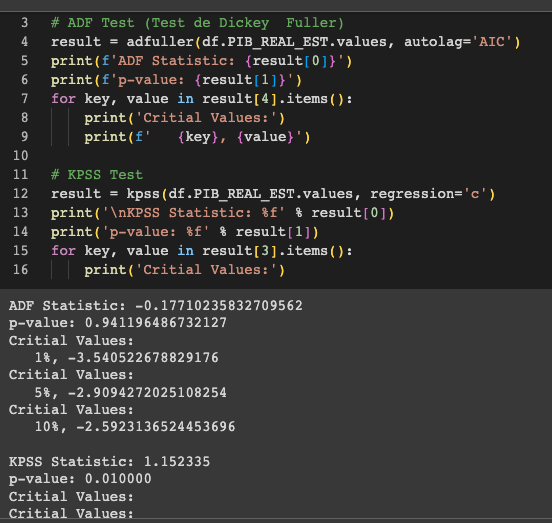


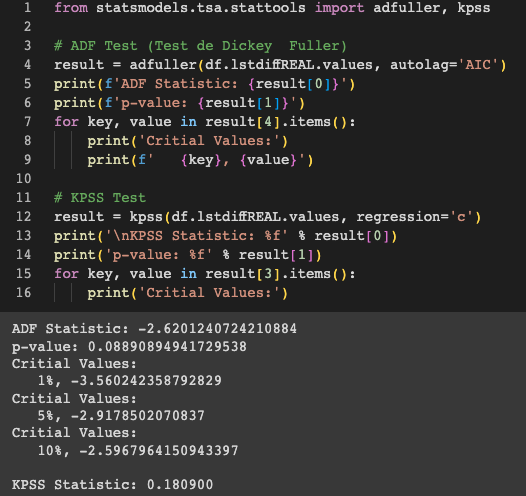




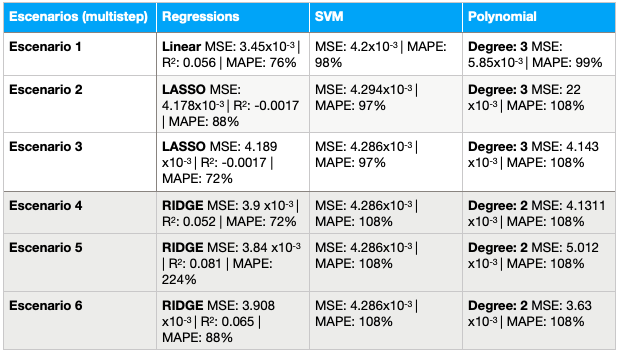




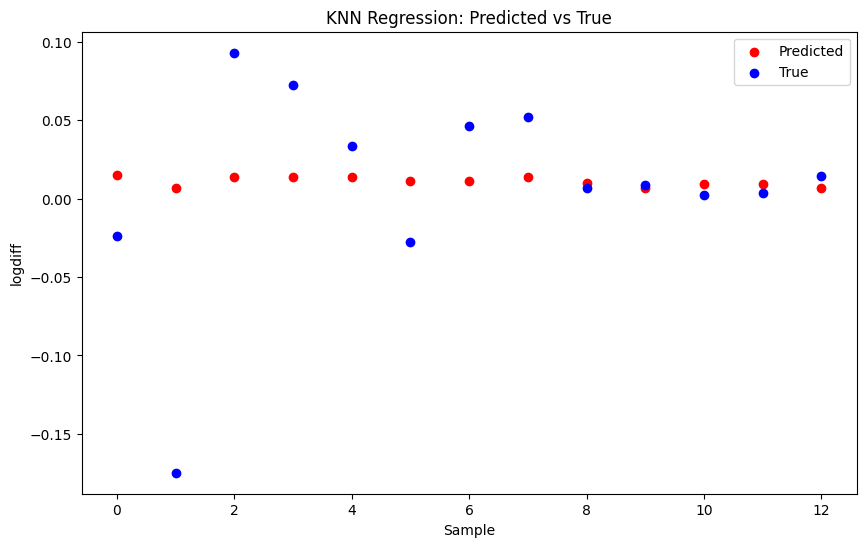


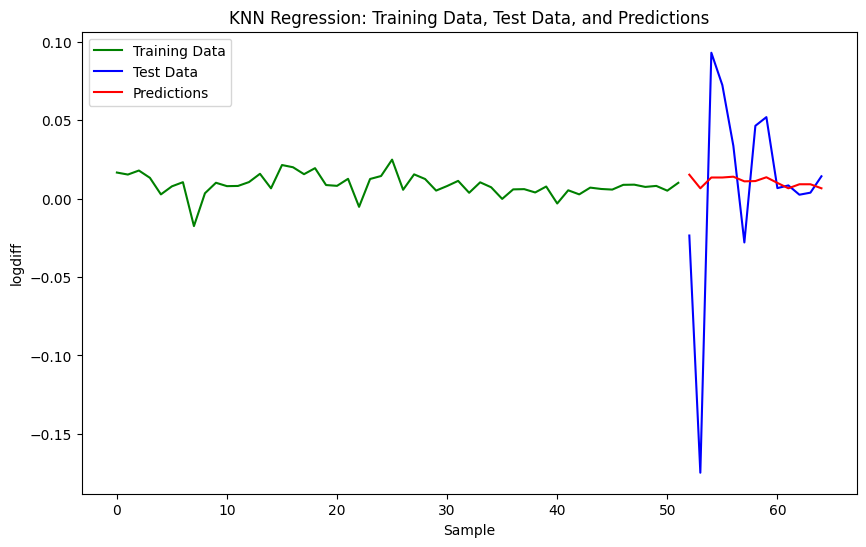


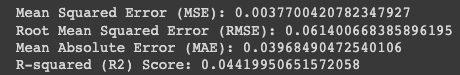
RESULTADOS



KNN MULTIVARIABLE







TESTO PARA LOGDIFF (DIFERENCIA DEL LOGARTIMO) con EL PIB CON CORRECION ESTACIONAL.

