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rm(list=ls())

library(fpp2)
library(quantmod)
library(tseries)
library(timeSeries)
library(forecast)
library(xts)
library(ggplot2)

#R?cup?ration des Tickers et des data sur yahooofinance
tickers<- c( "TTE.PA")
portfolioPrices<-NULL
for (Ticker in tickers)
  portfolioPrices<-cbind(portfolioPrices,
                        getSymbols.yahoo(Ticker, from = "2007-01-01",
                                         to = "2022-01-01", auto.assign=FALSE,
                                         periodicity = "monthly")[,4])

#on compte le nombre de tickers dans la liste
nb = length(tickers)
nb
#on execute le model autant de fois qu'il ya de tickers
for(A in 1:nb){
  y<- ts(portfolioPrices[,A], start=c(1998,1), frequency = 12)
  class(y)
  print (y)
  fit_arima<- auto.arima(y, d=1, D=1, stepwise = FALSE, approximation = FALSE,trace =
TRUE)
  fcst <- forecast(fit_arima, h =4)
  print(autoplot(fcst) +
        ggtitle(tickers[A]))
}

g2 <- autoplot(fcst) +
  ggtitle('amzn') +
  coord_cartesian(xlim = c(2020,2023))
g2

```