```r
# Load necessary libraries
#install.packages("forecast")
library(forecast)
# Read the data
data <- read.csv("data.csv")

# Convert Date column to Date type
data$date <- as.Date(data$date)

# Visualize the Time Series
plot(data$date, data$min_temperature, type = "l", xlab = "Date", ylab = "Minimum
Temperature", main = "Time Series Plot")

# Fit an ARIMA model
arima_model <- auto.arima(data$min_temperature)
summary(arima_model)

# Forecast Future Values
future_forecast <- forecast(arima_model, h = 30) # Forecasting 30 future values (about a
month)
plot(future_forecast, main = "Forecasted Minimum Temperatures")
```