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# Load library
library(randomForest)

# Load dataset
data <- read.csv("../dataset/sample_temperature_data.csv")

# Train Random Forest model
model <- randomForest(temperature ~ day, data=data, ntree=100)

# Predict next 10 days
future_days <- data.frame(day = max(data$day)+1:max(data$day)+10)
predicted_temp <- predict(model, future_days)

# Output results
result <- data.frame(
  Day = future_days$day,
  Predicted_Temperature = predicted_temp
)

print(result)
```