print(reduced_data)

```
title: "Temperature and Precipitation Mini Project"
output: html_document
date: "2023-11-10"
# Load the required libraries
library(tidyverse)
library(caret)
# Load the dataset
data <-
read.csv("cloud/project/Datasets/Temperature_And_Precipitation_Cities_IN/Bangalore_1990_2022_BangaloreCity.csv")
# Select relevant features
selected_features <- data %>%
  select(city, year, temperature, precipitation)
# Create new features using domain knowledge
new_features <- selected_features %>%
  mutate(temperature_celsius = (temperature - 32) * 5/9,
         precipitation_mm = precipitation * 25.4)
# Reduce the dimensionality of the data
reduced_data <- new_features %>%
  select(-temperature, -precipitation)
# Print the final dataset
```