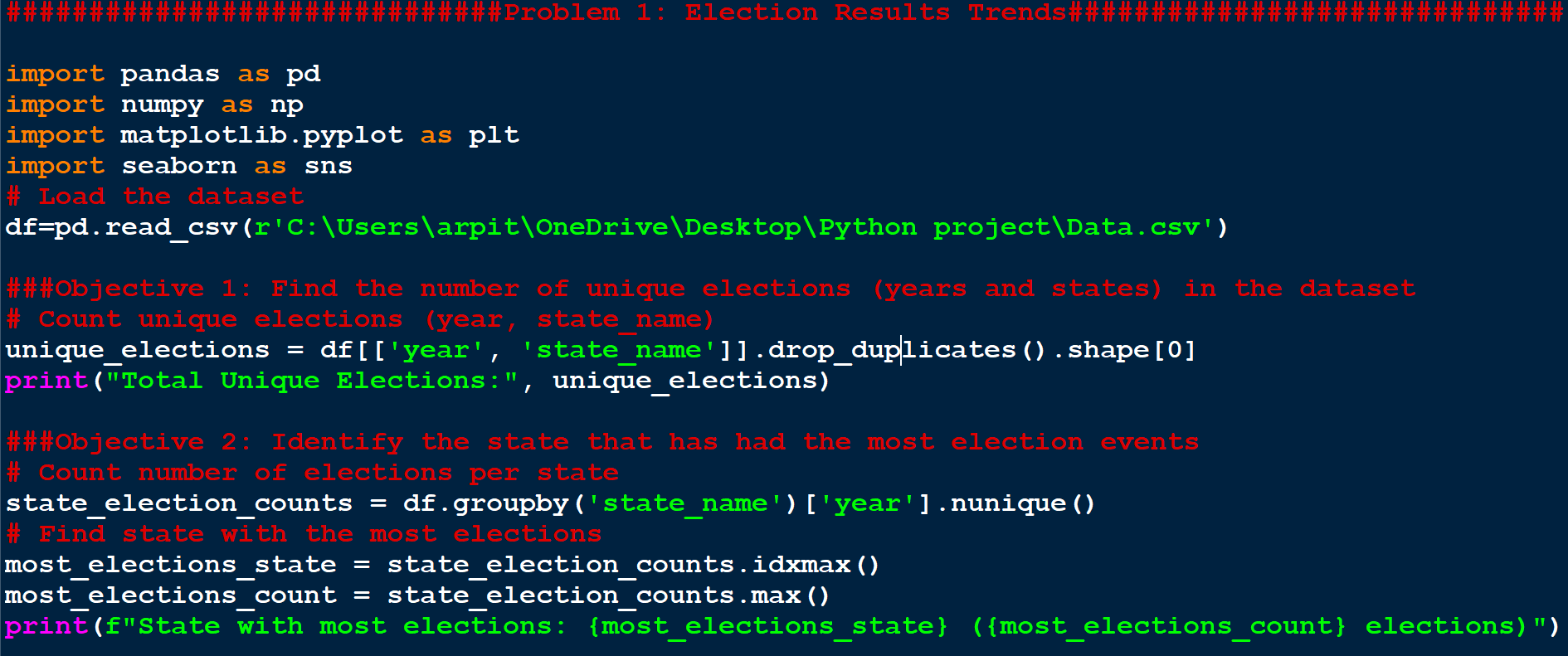
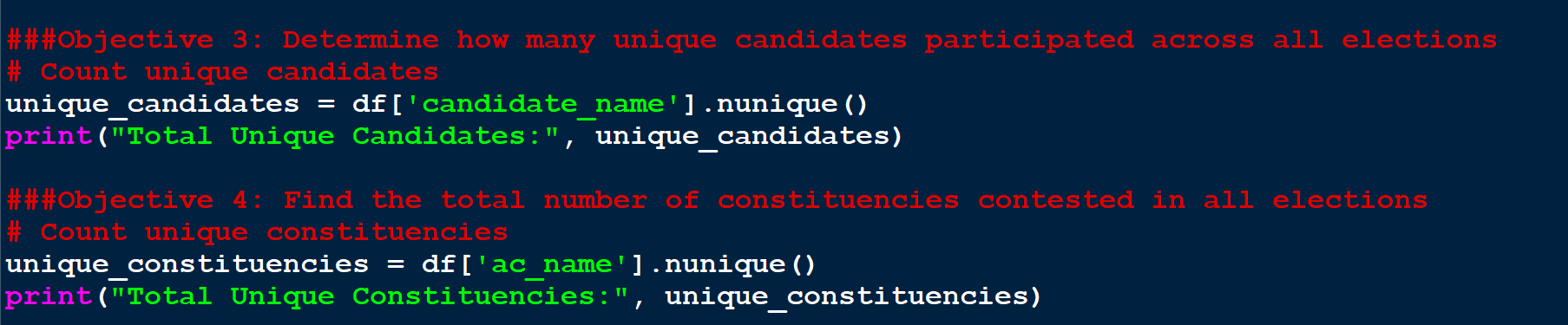
**Code:**





##############################Problem 1: Election Results Trends##############################

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

# Load the dataset

df=pd.read\_csv(r'C:\Users\arpit\OneDrive\Desktop\Python project\Data.csv')

###Objective 1: Find the number of unique elections (years and states) in the dataset

# Count unique elections (year, state\_name)

unique\_elections = df[['year', 'state\_name']].drop\_duplicates().shape[0]

print("Total Unique Elections:", unique\_elections)

###Objective 2: Identify the state that has had the most election events

# Count number of elections per state

state\_election\_counts = df.groupby('state\_name')['year'].nunique()

# Find state with the most elections

most\_elections\_state = state\_election\_counts.idxmax()

most\_elections\_count = state\_election\_counts.max()

print(f"State with most elections: {most\_elections\_state} ({most\_elections\_count} elections)")

###Objective 3: Determine how many unique candidates participated across all elections

# Count unique candidates

unique\_candidates = df['candidate\_name'].nunique()

print("Total Unique Candidates:", unique\_candidates)

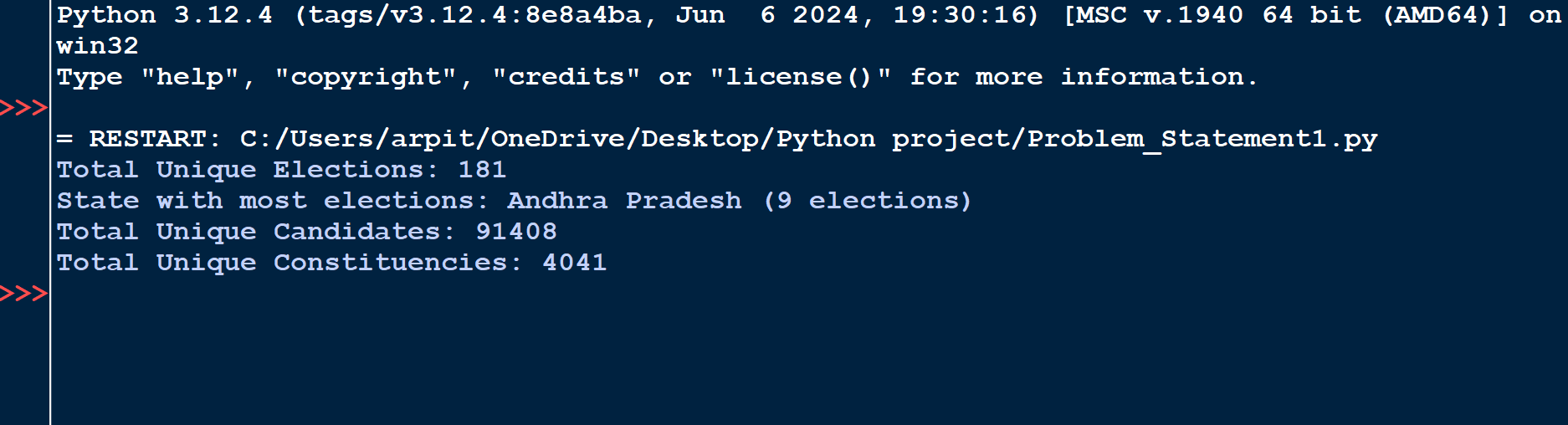
###Objective 4: Find the total number of constituencies contested in all elections

# Count unique constituencies

unique\_constituencies = df['ac\_name'].nunique()

print("Total Unique Constituencies:", unique\_constituencies)

**Output:**

****