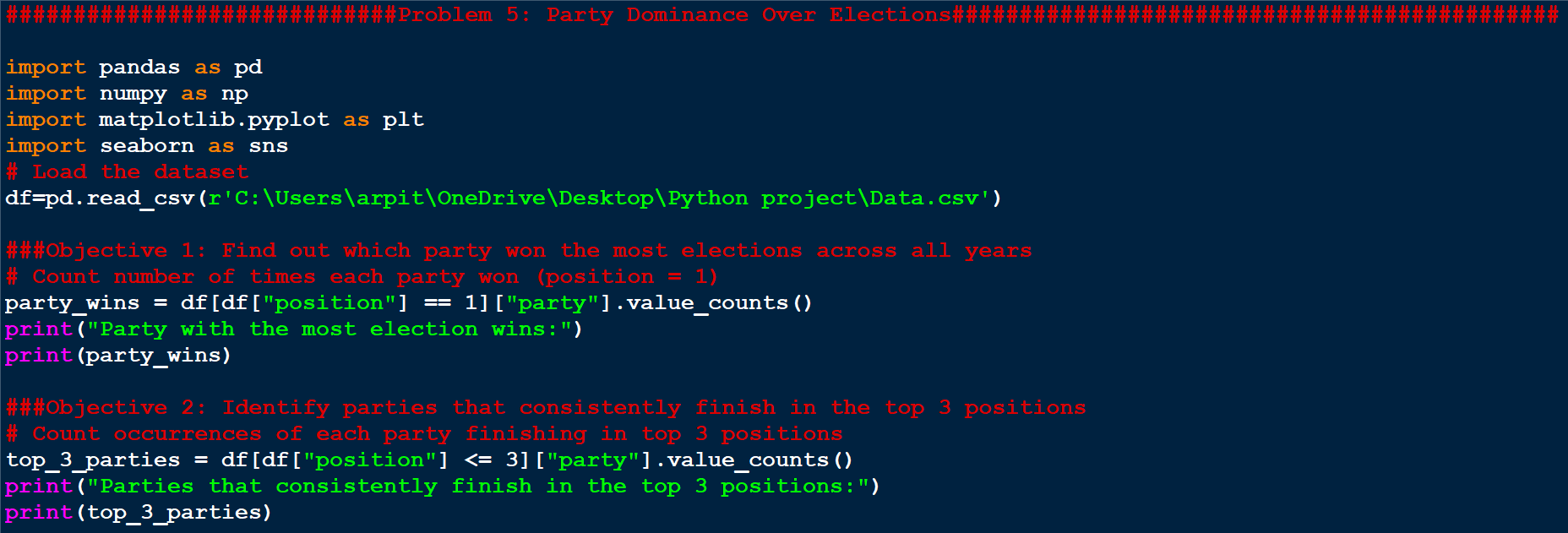
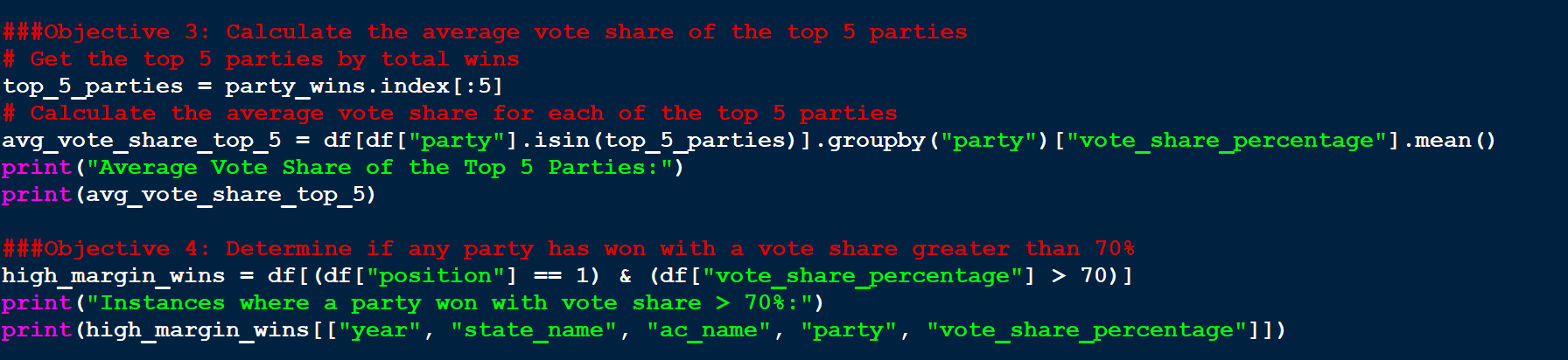
**Code:**





#############################Problem 5: Party Dominance Over Elections#############################################

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 out which party won the most elections across all years

# Count number of times each party won (position = 1)

party\_wins = df[df["position"] == 1]["party"].value\_counts()

print("Party with the most election wins:")

print(party\_wins)

###Objective 2: Identify parties that consistently finish in the top 3 positions

# Count occurrences of each party finishing in top 3 positions

top\_3\_parties = df[df["position"] <= 3]["party"].value\_counts()

print("Parties that consistently finish in the top 3 positions:")

print(top\_3\_parties)

###Objective 3: Calculate the average vote share of the top 5 parties

# Get the top 5 parties by total wins

top\_5\_parties = party\_wins.index[:5]

# Calculate the average vote share for each of the top 5 parties

avg\_vote\_share\_top\_5 = df[df["party"].isin(top\_5\_parties)].groupby("party")["vote\_share\_percentage"].mean()

print("Average Vote Share of the Top 5 Parties:")

print(avg\_vote\_share\_top\_5)

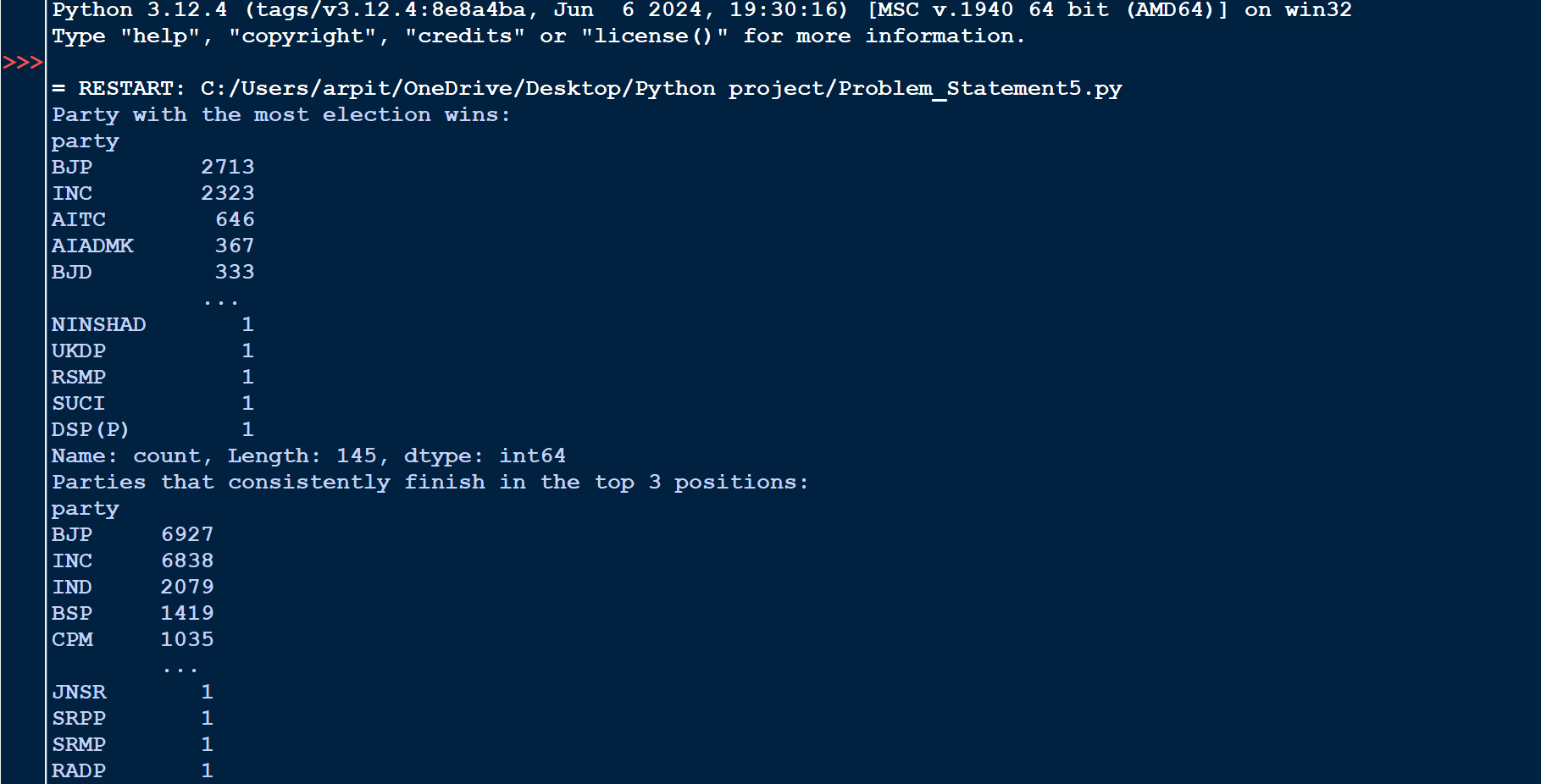
###Objective 4: Determine if any party has won with a vote share greater than 70%

high\_margin\_wins = df[(df["position"] == 1) & (df["vote\_share\_percentage"] > 70)]

print("Instances where a party won with vote share > 70%:")

print(high\_margin\_wins[["year", "state\_name", "ac\_name", "party", "vote\_share\_percentage"]])

**Output:**

****

