**PROGRAM:**

import pandas as pd

import plotly.express as px

import json

world\_df = pd.DataFrame({

'Country': ['India', 'China', 'United States', 'Brazil', 'Russia'],

'ISO\_Code': ['IND', 'CHN', 'USA', 'BRA', 'RUS'],

'Population': [1393409038, 1444216107, 331893745, 213993437, 145912025]

})

world\_fig = px.choropleth(

world\_df,

locations="ISO\_Code",

color="Population",

hover\_name="Country",

color\_continuous\_scale="Viridis",

title="🌍 World Population Visualization"

)

world\_fig.update\_geos(showcountries=True)

world\_fig.show()

with open("india\_states.geojson", "r") as file:

india\_states\_geo = json.load(file)

state\_df = pd.DataFrame({

'State': ['Tamil Nadu', 'Kerala', 'Maharashtra', 'Gujarat', 'Uttar Pradesh'],

'Literacy': [80.1, 94.0, 82.3, 78.0, 70.2]

})

state\_fig = px.choropleth(

state\_df,

geojson=india\_states\_geo,

featureidkey="properties.ST\_NM",

locations="State",

color="Literacy",

color\_continuous\_scale="Blues",

title="📚 Literacy Rate by Indian State"

)

state\_fig.update\_geos(fitbounds="locations", visible=False)

state\_fig.show()

with open("india\_districts.geojson", "r") as file:

india\_districts\_geo = json.load(file)

district\_df = pd.DataFrame({

'District': ['Chennai', 'Mumbai', 'Lucknow', 'Ahmedabad'],

'Rainfall': [950, 1100, 850, 720]

})

district\_fig = px.choropleth(

district\_df,

geojson=india\_districts\_geo,

featureidkey="properties.district",

locations="District",

color="Rainfall",

color\_continuous\_scale="Greens",

title="🌧️ Average Rainfall by Indian District"

)

district\_fig.update\_geos(fitbounds="locations", visible=False)

A screenshot of a computer

AI-generated content may be incorrect.district\_fig.show()

**OUTPUT:**