Ex. No:7 Visualizing Geographic Data with Basemap

Program:-

import matplotlib.pyplot as plt import geopandas from shapely.geometry import Polygon df = pd.read_excel('state_wise_crimes.xlsx') fp = "Igismap/Indian_States.shp" map_df = gpd.read_file(fp) merged = map_df.set_index('st_nm').join(data_for_map.set_index('state_name')) merged.head() fig, ax = plt.subplots(1, figsize=(10, 6)) ax.axis('off')

ax.set_title('State Wise Crime against women in India in 2015',

merged.plot(column='Total Crimes against Women', cmap='YlOrRd',

fontdict={'fontsize': '25', 'fontweight': '3'}

linewidth=0.8, ax=ax, edgecolor='0.8', legend=True)

output:-

