

Assignment No. 21

Inheritance

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Objective

- Write a program that uses Matplotlib library to plot a line graph showing the population growth of a country over a period of 10 years. Use appropriate labels, titles and axis ranges

Code

- Snapshot of your code

```
23 # Years from 2010 to 2019
24 years = [2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019]
25 # Population data for each year
26 population = [112345, 115678, 120123, 125456, 130789, 136123, 142567, 149123, 155678, 162345]
27 # Create a line plot
28 plt.plot(years, population, marker='o', linestyle='-')
29
30 # Add labels and a title
31 plt.xlabel('Year')
32 plt.ylabel('Population (in millions)')
33 plt.title('Population Growth Over 10 Years')
34
35 # Set axis ranges
36 plt.xlim(2010, 2019)
37 plt.ylim(min(population) - 5000, max(population) + 5000)
38
39 # Show grid lines
40 plt.grid(True)
41
42 # Display the plot
43 plt.show()
```

Text watermark

Output

- Snapshot of your output

