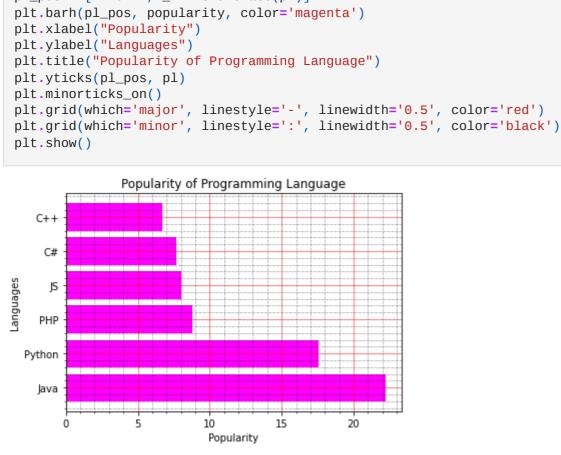
pl=['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++'] popularity=[22.2, 17.6, 8.8, 8, 7.7, 6.7] pl_pos=[i for i, _ in enumerate(pl)] plt.bar(pl_pos, popularity, color='green') plt.xlabel("Languages") plt.ylabel("Popularity") plt.title("Popularity of Programming Language") plt.xticks(pl_pos, pl) plt.minorticks_on() plt.grid(which='major', linestyle='-', linewidth='0.5', color='red')
plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black') Popularity of Programming Language 20 15 Popularity 10 5 Java Python PHP JavaScript C# Languages In [21]: # 2.Write a Python programming to display a horizontal bar chart of the popularity of programming Languages. pl=['Java', 'Python', 'PHP', 'JS', 'C#', 'C++'] popularity=[22.2, 17.6, 8.8, 8, 7.7, 6.7] pl_pos = [i for i, _ in enumerate(pl)]

''' 1.Write a Python programming to display a bar chart of the popularity of programming Languages. Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

from matplotlib import pyplot as plt



pl=['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++']

plt.bar(pl_pos, popularity, color=['green', 'blue', 'black', 'red', 'yellow', 'magenta'])

popularity=[22.2, 17.6, 8.8, 8, 7.7, 6.7]
pl_pos = [i for i, _ in enumerate(pl)]

plt.title("Popularity of Programming Language")

plt.xlabel("Languages")
plt.ylabel("Popularity")

plt.xticks(pl_pos, pl)
plt.minorticks_on()

plt.xticks(pl_pos, pl)
plt.minorticks_on()

plt.show()

In [29]:

In [20]:

300

200

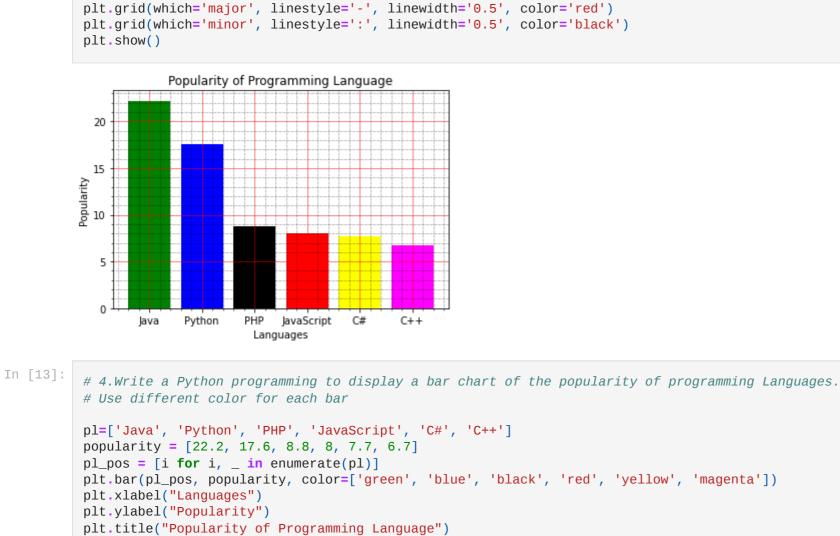
100

Sample data:

In [19]:

In [27]:

20



15 5 PHP JavaScript Java Python C# C++ Languages # 5.Write a Python programming to display a bar chart of the popularity of programming Languages. Make blue border to each bar pl=['Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++'] popularity = [22.2, 17.6, 8.8, 8, 7.7, 6.7] pl_pos = [i for i, _ in enumerate(pl)] plt.bar(pl_pos, popularity, color='blue') plt.xlabel("Languages") plt.ylabel("Popularity") plt.title("Popularity of Programming Language") plt.xticks(pl_pos, pl) plt.minorticks_on() plt.grid(which='major', linestyle='-', linewidth='0.5', color='red') plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black') plt.show()

Popularity of Programming Language

plt.grid(which='major', linestyle='-', linewidth='0.5', color='red')
plt.grid(which='minor', linestyle=':', linewidth='0.5', color='black')

Popularity of Programming Language

15 Popularity 10 5 Python PHP JavaScript Java Languages ''' 6.Write a Python program to create a stacked bar plot . Note: Use bottom to stack the women bars on top of the men bars. Sample Data: men = [122, 230, 1 35, 335, 126]women = [225, 132, 30, 235, 229]men = [122, 230, 135, 335, 126] women = [225, 132, 30, 235, 229]plt.bar(range(len(men)), men, label='men', width=0.3, color='red') plt.bar(range(len(women)), women, bottom=men, label='women', width=0.3, color='green') plt.show() 500 400

colors = ['green', 'blue', 'purple', 'red', 'yellow', 'magenta']
explode = (0.1, 0, 0, 0, 0, 0)
plt.pie(popuratity, explode=explode, labels=pl, colors=colors,
autopct='%1.1f%', shadow=True, startangle=140)
plt.axis('equal')
plt.show()
C#

C#

C#

10.8%

11.3%
PHP

31.3%
PHP

31.3%

12.4%
Python

'''8.Write a Python program to draw a scatter plot different weights and heights.'''

height=[7.2,6.2,5.1,5.3,4.2]

plt.scatter(height, weights)

weights=[5,6,8,7,4]

plt.xlabel('Heights')

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

popuratity = [22.2, 17.6, 8.8, 8, 7.7, 6.7]

Programming languages: Java, Python, PHP, JavaScript, C#, C++

pl = 'Java', 'Python', 'PHP', 'JavaScript', 'C#', 'C++'

'''7.Write a Python programming to create a pie chart of the popularity of programming Languages.

plt.ylabel('Weights') plt.show() 8.0 7.5 7.0 6.5 Weights 5.5 5.0 4.5 4.0 5.0 4.5 6.0 6.5 7.0 5.5 Heights In []: