import pandas as pd

<pre>In [72]: Out[72]: In [73]:</pre>	count 30176 unique 8618 top HTML/CSS; JavaScript; PHP; SQL freq 567 Name: LanguageWorkedWith, dtype: object
In [5]:	<pre>totalSQL = totalSQL[0] filt = (df['LanguageWorkedWith'].str.contains('Python') == True) totalPy = df.loc[filt][['LanguageWorkedWith']].count() totalPy = totalPy[0] filt = (df['LanguageWorkedWith'].str.contains("C\+\+") == True) totalCpp = df.loc[filt][['LanguageWorkedWith']].count() totalCpp = totalCpp[0] filt = (df['LanguageWorkedWith'].str.contains("Java[^Script]") == True) totalJava = df.loc[filt][['LanguageWorkedWith']].count() totalJava = totalJava[0]</pre>
In [75]:	 The second chart shows languages currently respondents want to lear in 2021. These charts highlight the desire for more programmers to learn and use Python. (Currently 14.4% of respondents know Python, but 21.3% of respondents want to learn Python in 2021) The standard languages of JavaScript, HTML, and SQL remain popular. Judging from this information, Python looks to be the upcoming language most respondents want to learn in 2021. labels = ['JavaScript', 'HTML', 'SQL', 'Python', 'Java', 'C++'] slices = [totalJavaScript, totalHTML, totalSQL, totalPy, totalJava, totalCpp] explode = [0, 0, 0, 0.1, 0, 0] plt.pie(slices, labels=labels, explode=explode, shadow=True, startangle=120, autopct= wedgeprops={'edgecolor': 'black'}) plt.title('Popularity Top 5 Languages')
	plt.savefig('PieChartPopLang.png') plt.show() Popularity Top 5 Languages C++ Java Java C++ Java Python 14.4%
In [76]:	labels = ['JavaScript', 'HTML', 'SQL', 'Python', 'Java', 'C++'] slices = [LearnJavaScript, learnHTML, learnSQL, learnPy, learnJava, learnCpp] explode = [0, 0, 0, 0.1, 0, 0] plt.pie(slices, labels=labels, explode=explode, shadow=True, startangle=120, autopct= wedgeprops={'edgecolor': 'black'}) plt.title('Planning to Learn')
	plt.title('Planning to Learn') plt.tight_layout() plt.savefig('PieChartLearnLang.png') plt.show() Planning to Learn C++ Java Python 21.3% Python
In [7]:	**html *html *h2> Conclusions Drawn: \$\psi #9642; The United States has a noticeably higher mean and median salary. The UK, Canall have similar mean and median salaries. India claimed the fifth highest median salar salary drops off considerably. (India's median salary is 9% of the US median salary are
	world median salary world median salary ▪ The median age of the respondent is 30 years old. This aligns with expectation ▪ A higher percentage of younger respondents 20-35 years old tend to already known percentage of respondents that already known Python drop off ▪ Based on responses to this survey, Python is a popular upcoming programing largiven the ease and versatility of the Python programming language. The increase in decompared to the relatively low percentage of respondents that currently known Python he End Report 3/18/21 completed by Ryan Olsen Conclusions Drawn: The United States has a noticeably higher mean and median salary. The UK, Canada and Germany all have similar mean and median salaries. India claimed the fifth highest median salary, though the median
	salary drops off considerably. (India's median salary is 9% of the US median salary and just under 20% of the world median salary The median age of the respondent is 30 years old. This aligns with expectations A higher percentage of younger respondents 20-35 years old tend to already know Python. Over the age of 35, the percentage of respondents that already know Python drop off Based on responses to this survey, Python is a popular upcoming programing language. This is not surprising given the ease and versatility of the Python programming language. The increase in desire to learn this language in 2021, compared to the relatively low percentage of respondents that currently know Python help support this conclusion.
	End Report 3/18/21 completed by Ryan Olsen