	<pre>import pandas as pd import matplotlib.pyplot as plt</pre>
	<pre>plt.plot([1, 2, 3], [2, 4, 3]) plt.show() <figure 1="" 640x480="" axes="" size="" with=""></figure></pre>
In [2]:	<pre>import matplotlib.pyplot as plt  x = [1, 2, 3] y = [2, 4, 3]</pre>
	<pre>plt.plot(x, y) plt.xlabel('X Label (Plot Number)') plt.ylabel('Y Label (The Data)')  plt.title('My Cool Graph') plt.show()</pre>
	My Cool Graph  4.00 -  3.75 -  3.50 -
	(gt 3.50 - 1)
	2.25 - 2.00 - 1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 X Label (Plot Number)
In [3]:	x = [1, 2, 3] y = [2, 4, 3]
	<pre>x2 = [1, 2, 3] y2 = [7, 7, 14]  plt.plot(x, y, label='First Line') plt.plot(x2, y2, label='Second Line') plt.xlabel('X Label (Plot Number)')</pre>
	<pre>plt.ylabel('Y Label (The Data)')  plt.title('My Cool Graph') plt.legend() plt.show()</pre>
	My Cool Graph  14 First Line Second Line  12
	X Label (The Data)  Y Label (The Data)  4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4
In [4]:	2 100 125 150 175 2.00 2.25 2.50 2.75 3.00 X Label (Plot Number)  #Line properties
	<pre>import numpy as np x = np.linspace(-2,2,41) y = np.exp(-x**2) * np.cos(2*np.pi*x) plt.plot(x,y,alpha=0.4,label='Decaying Cosine',</pre>
	markeredgecolor='blue') plt.ylim([-2,2]) plt.legend() plt.show()  20 Decaying Cosine
	15 - 10 - 0.5 - 0.0 -
	-0.5 -1.0 -1.5 -2.0 -1.5 -1.0 -0.5 0.0 0.5 10 15 2.0
In [5]:	<pre>#format String x = np.linspace(-5,5,41) y = 1/(1 + x**2) plt.plot(x,y,color='black',linestyle='dashed',marker='s') plt.show()</pre>
	1.0 - 0.8 - 0.6 -
	0.4 - 0.2 -
In [6]:	x = np.linspace(-5,5,41) y = 1/(1 + x**2) plt.plot(x,y,'ks') #k=black,s=square marker,=dashed line
	plt.show()  10 -
	0.6 -
	Pyplot Functions plt.xlim set limits plt.ylim set limits plt.grid add grid lines plt.title add a title plt.xlabel add label to the horizontal axis plt.ylabel
	add label to the vertical axis plt.axis set axis properties (equal, off, scaled, etc.) plt.xticks set tick locations on the horizontal axis plt.yticks set tick locations on the vertical axis plt.legend display legend for several lines in the same figure plt.savefig save figure (as .png, .pdf, etc.) to working directory plt.figure create a new figure and set its properties  Color Character Color b blue g green r red c cyan m magenta y yellow k black w white
	Markers Character Marker . point o circle v triangle down ^ triangle up s square p pentagon  star  plus x x D diamond  Line Styles Character Line Style
In [7]:	
	<pre>x = [1, 2, 3, 4, 5] y = [2, 4, 3, 1, 7]  plt.bar(x, y, label='First Bars')  plt.xlabel('X Label (Plot Number)') plt.ylabel('Y Label (The Data)')</pre>
	<pre>plt.title('My Cool Graph') plt.legend() plt.show()</pre> <pre>My Cool Graph</pre>
	7 - First Bars 6 - First Bars 7 - First Bars 7 - First Bars 8 - First Bars 9 - Fi
In [8]:	1 2 3 4 5 X Label (Plot Number)
	<pre>y = [2, 4, 3, 1, 7]  x2 = [2, 4, 6, 8, 10] y2 = [2, 4, 4, 2, 6]  plt.bar(x, y, label='First Bars') plt.bar(x2, y2, label='Second Bars')</pre>
	<pre>plt.xlabel('X Label (Plot Number)') plt.ylabel('Y Label (The Data)')  plt.title('My Cool Graph') plt.legend() plt.show()</pre>
	My Cool Graph  7 First Bars Second Bars  9 5
	A Label (The Data)
In [9]:	plt.bar(x, y, label='First Bars', color='red') plt.bar(x2, y2, label='Second Bars', color='black')
Out[9]:	<pre><barcontainer 5="" artists="" object="" of=""> 7- 6-</barcontainer></pre>
	5 - 4 - 3 - 2 -
In [10]:	import matplotlib.pyplot as plt
	<pre>salaries = [55312, 88143, 57423, 65872, 68154, 77554, 72345, 79492, 52310, 88541, 97000, 105234, 73198] bins = [50000, 60000, 70000, 80000, 90000, 100000]  plt.hist(salaries, bins, histtype='bar', rwidth=0.7)  plt.xlabel('Salaries') plt.ylabel('Number of people')</pre>
	plt.title('My Cool Histogram') plt.show()  My Cool Histogram 4.0
	3.5 - algoed 2.5 - bo 2.0 - may 1.5 -
	1.5 - 1.0 - 0.5 - 0.0 - 50000 60000 70000 80000 90000 100000 Salaries
In [11]:	
	<pre>plt.scatter(x, y)  plt.xlabel('This is X') plt.ylabel('This is Y')  plt.title('My Cool Scatter Plot')</pre>
	My Cool Scatter Plot  10 -
	y si si∉ 4 -
In [12]:	2 4 6 8 10  This is X  import matplotlib.pyplot as plt
In [12]:	<pre>import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [9, 7, 3, 5, 2, 2, 1, 1, 6, 10]  plt.scatter(x, y, marker='D', s=100)</pre>
In [12]:	<pre>import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [9, 7, 3, 5, 2, 2, 1, 1, 6, 10]  plt.scatter(x, y, marker='D', s=100)  plt.xlabel('This is X') plt.ylabel('This is Y')  plt.title('My Cool Scatter Plot')  plt.show()</pre>
In [12]:	import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [9, 7, 3, 5, 2, 2, 1, 1, 6, 10] plt.scatter(x, y, marker='D', s=100) plt.xlabel('This is X') plt.ylabel('This is Y') plt.title('My Cool Scatter Plot') plt.show()  My Cool Scatter Plot  10  My Cool Scatter Plot
In [12]:	import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [9, 7, 3, 5, 2, 2, 1, 1, 6, 10] plt.scatter(x, y, marker='D', s=100)  plt.xlabel('This is X') plt.ylabel('This is Y') plt.title('My Cool Scatter Plot') plt.show()  My Cool Scatter Plot  My Cool Scatter Plot  My Cool Scatter Plot
In [12]:	import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [9, 7, 3, 5, 2, 2, 1, 1, 6, 10] plt.scatter(x, y, marker='D', s=100) plt.xlabel('This is X') plt.ylabel('This is Y') plt.title('My Cool Scatter Plot') plt.show()  My Cool Scatter Plot  10 8 4 2 4 6 8 10
	import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y= [9, 7, 3, 5, 2, 2, 1, 6, 10] plt.scatter(x, y, marker='D', s=100) plt.xlabel('This is X') plt.ylabel('This is Y') plt.show()  My Cool Scatter Plot  My Cool Scatter Plot  import matplotlib.pyplot as plt  days = [1, 2, 3, 4, 5] codereviews = [2, 3, 1, 2, 3] bugregorte = [0, 0, 1, 0, 2] internet = [3, 4, 2, 2, 5] plt.stackplot(days, emails, codereviews, bugreports, internet,
	<pre>import matplotlib.pyplot as plt x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] y = [3, 7, 3, 5, 2, 2, 1, 1, 6, 10] plt.scatter(x, y, marker-'D', s-100) plt.xlabel('This is X') plt.tylabel('This is X') plt.tylabel('My Cool Scatter Plot')  import matplotlib.pyplot as plt  days = [1, 2, 3, 4, 5] emails = [1, 1, 2, 3, 1] coderoviews = [2, 1, 1, 2, 3] borgeoptts = [0, 0, 1, 4, 2] internet = [3, 4, 2, 2, 5] plt.stackplot(days, emails, codereviews, bugreports, internet,</pre>
	<pre>import matplotlib.pyplot as plt</pre>
	<pre>import matplotlib.pyplot as pit</pre>
	import matplotlib.pyplot as plt  x = 11, 2, 3, 4, 5, 6, 7, 6, 9, 101 y=19, 7, 5, 7, 5, 2, 2, 1, 1, 1, 5, 101 pitunatumr(x, y, marken="0", x=100) nit.xibbolitribis as x'1 pit.yibbolitribis as x'1 pit.yibbolitribis as x'1 pit.yibbolitribis as x'1 pit.xibov()  My Cool Scatter Plot  10 10 10 10 10 10 10 10 10 10 10 10 10
In [13]:	import matplotlib.pyplot as plt  x = [1, 2, 3, 4, 5, 6, 7, 6, 2, 10] y = [3, 3, 3, 5, 2, 5, 5, 6, 7, 6, 2, 10] out.sacter(x, y, marker(**), s-100) yot.nalch(**This is x*) yot.pyland(**This is x*) yot.pyland(**)  My Cool Scatter Moc  **My Cool Scatter Moc  **My Cool Scatter Moc  **Moc is a plt  days = [1, 2, 3, 4, 5] yot.pyland(**) yot.pyland(**) **My Cool Scatter Moc  **Moc is a plt  days = [1, 2, 3, 4, 5] yot.pyland(**) y
In [13]:	<pre>import matplotlib.pypiot as pit  = [1, 7, 5, 4, 5, 5, 5, 7, 9, 3, 10]</pre>
In [13]:	import matplotlib.psplot as pit  Z = 0.2.3, 3, 4, 5, 5, 5, 5, 9, 101 y = 0.7.7, 9, 6, 5, 1, 1, 1, 5, 70 publication of the second of the secon
In [13]:	import matplotlib.pyplot as pit  x = [2, 2, 3, 7, 5, 5, 7, 8, 9, 10] y = [3, 7, 5, 7, 8, 7, 8, 9, 10] y = [3, 7, 9, 9, 5, 5, 7, 8, 9, 10] y = [3, 7, 9, 9, 5, 5, 7, 8, 9, 10] y = [3, 7, 9, 9, 5, 5, 7, 8, 9, 10] y = [3, 7, 9, 9, 9, 5, 5, 7, 8, 9, 10] y = [3, 7, 9, 9, 9, 10] y = [3, 7, 10] y =
In [13]:  In [14]:	amport merginolish pypoles as git  X = 3,2,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,
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