ć	<pre>x = np.arange(1,11) x  array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10])  y = x*2 y  array([ 2,  4,  6,  8, 10, 12, 14, 16, 18, 20])</pre>
	plt.plot(x,y) plt.show()  20.0 17.5 15.0 10.0
	10.0
	#Adding Title and Lables  plt.plot(x,y)  plt.title("Line Plot Example")  plt.xlabel("This is x")  plt.ylabel("This is y")  plt.show()  Line Plot Example
F	20.0 17.5 15.0 25 10.0 7.5 5.0 2.5
	Changing line asthetics - Line style, line colour, line width, etc.  plt.plot(x,y,color = 'g', linestyle = ':', linewidth = 2) plt.show()  20.0  17.5
	15.0 - 10.0 - 7.5 - 5.0 - 2.5 - 2 4 6 8 10
	plt.plot(x,y,color = 'r', linestyle = '-', linewidth = 5) plt.show()  20.0  17.5  15.0  10.0  7.5
	2.5 Adding two lines in the smae plot  x = np.arange(1,11) y1 = x*2 y2 = x*3
	<pre>plt.plot(x,y1, color = 'r', linestyle = '-', linewidth = 2) plt.plot(x,y2, color = 'b', linestyle = '', linewidth = 4) plt.title("New Line Plot") plt.xlabel("This is X-Axis") plt.ylabel("This is Y-Axis") plt.grid(True) plt.show()</pre> <pre>New Line Plot</pre>
F	25 20 15 10 5 2 4 6 8 10 This is X-Axis
	Adding subplots (more plots in one screen)  plt.subplot(2,1,1) # 2 = rows, 1 = column, 1 = index plt.plot(x,y1, color = 'r', linestyle = '-', linewidth = 2) plt.title("New Line Plot") plt.xlabel("This is X-Axis") plt.ylabel("This is Y-Axis") plt.grid(True)  plt.subplot(2,1,2) plt.plot(x,y2, color = 'b', linestyle = '', linewidth = 4) plt.title("New Line Plot")
	plt.xlabel("This is X-Axis") plt.ylabel("This is Y-Axis") plt.grid(True)  plt.show()  New Line Plot
	plt.subplot(1,2,1) # 1 = row, 2 = column, 2 = index plt.plot(x,y1, color = 'r', linestyle = '-', linewidth = 2)
	<pre>plt.plot(x,y1, color = 1, linestyle = 2, linewidth = 2) plt.title("New Line Plot") plt.xlabel("This is X-Axis") plt.ylabel("This is Y-Axis") plt.grid(True)  plt.subplot(1,2,2) plt.plot(x,y2, color = 'b', linestyle = '', linewidth = 4) plt.title("New Line Plot") plt.xlabel("This is X-Axis") plt.ylabel("This is Y-Axis") plt.grid(True)  plt.show()</pre>
	New Line Plot New Line Plot  17.5  15.0  10.0  7.5
	Student = {"Munni":90, "Shila":80, "Dhanno":70}  x = list(student.keys()) y = list(student.values())
	plt.bar(x,y) plt.show()  80 - 40 -
F	Adding Tiltes and Label  plt.bar(x,y) plt.title("Bar Plot Example") plt.xlabel("Names") plt.ylabel("Marks") plt.grid(False) #We can pass false if we dont want grids in our any types of plot
	Bar Plot Example  80 - 60 - 90 - 90 - 90 - 90 - 90 - 90 - 9
	Dhanno  Horizontal Bar Plot  plt.barh(x,y, color = 'r') plt.title("Bar Plot Example") plt.xlabel("Names")
	plt.ylabel("Marks") plt.show()  Bar Plot Example  Dhanno -  Shila -
	Munni- 0 20 40 80 Names  Scatter Plot  x = (1,2,3,4,5,6,7,8,9,10) y = (3,0,5,9,1,4,6,8,22,3)
	plt.scatter(x,y) plt.show()  20 - 15 - 10 -
	Changing marker(dot) Asthetics (colour,size,type)  x = (1,2,3,4,5,6,7,8,9,10) y = (3,0,5,9,1,4,6,8,22,3) plt.scatter(x,y,marker = '^', c = 'r', s = 100) plt.show()
	20 - 15 - 10 - 10 - 10 - 10 - 10 - 10 - 1
	Addint two markers in the same plot  x = [10,20,30,40,50,60,70,80,90] y1 = [1,5,2,4,7,8,9,3,6] y2 = [11,55,22,44,77,88,99,33,66] plt.scatter(x,y1, c = 'r', marker = '*', s = 100) plt.scatter(x,y2, c = 'b', marker = '.', s = 100) plt.title("Two Variable Sactter Plot") plt.xlabel("This is X-Axia")
	plt.ylabel("This is Y-Axis") plt.show()  Two Variable Sactter Plot  100 -
	20  10  20  30  40  50  60  70  80  90  Adding more than one plots(sub plots) in one screen  x = [10,20,30,40,50,60,70,80,90] y1 = [1,5,2,4,7,8,9,3,6] y2 = [11,55,2,4,7,8,9,3,6] y3 = [11,55,2,4,7,8,9,3,6]
	<pre>y2 = [11,55,22,44,77,88,99,33,66]  plt.subplot(1,2,1) plt.scatter(x,y1, c = 'r', marker = '*', s = 100) plt.title("1st Sub-Plot") plt.xlabel("This is X-Axia") plt.ylabel("This is Y-Axis")  plt.subplot(1,2,2) plt.scatter(x,y2, c = 'b', marker = '.', s = 100) plt.title("2nd Sub-Plot") plt.xlabel("This is X-Axia") plt.ylabel("This is Y-Axis")</pre>
	1st Sub-Plot 2nd Sub-Plot  9  80  7  **  **  **  **  **  **  **  **  **
	data = [1,1,1,2,2,3,3,3,4,4,4,5,5,5,5,6] plt.hist(data, color = 'g') plt.show()
	4.0 - 3.5 - 3.0 - 2.5 - 2.0 - 1.5 - 1.0 - 0.5 -
	<pre>data = [1,1,1,2,2,3,3,3,4,4,4,5,5,5,5,6] plt.hist(data, color = 'g', bins = 3) plt.show()</pre>
	<pre>import pandas as pd iris = pd.read_csv('iris.csv') iris.head()  Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm Species 0 1 5.1 3.5 1.4 0.2 Iris-setosa 1 2 4.9 3.0 1.4 0.2 Iris-setosa 2 3 4.7 3.2 1.3 0.2 Iris-setosa</pre>
3	2 3 4.7 3.2 1.3 0.2 Iris-setosa 3 4 4.6 3.1 1.5 0.2 Iris-setosa 4 5 5.0 3.6 1.4 0.2 Iris-setosa  plt.hist(iris['SepalLengthCm'], color = 'r', bins = 100) plt.show()
•	6 - 4 - 2 - 4 - 5 - 5 - 5 - 5 - 6 - 6 - 5 - 7 - 0 - 7 - 5 - 8 - 0
	<pre>Sox-Plot  one = [1,2,3,4,5,6,7,8,9]     two = [1,2,3,5,4,3,2,1,5]     three = [9,7,6,8,9,6,5,7,9]     d1 = list([one,two,three])     plt.boxplot(d1)     plt.show()</pre>
	<pre>/iolin-Plot  one = [1,2,3,4,5,6,7,8,9]     two = [1,2,3,5,4,3,2,1,5]     three = [9,7,6,8,9,6,5,7,9]     d1 = list([one,two,three])     plt.violinplot(d1)     plt.show()</pre>
	7 - 6 - 5 - 4 - 3 - 2 - 10 1.5 2.0 2.5 3.0
	<pre>Pie-Chart  fruit = ['Apple', 'Banana', 'Mango', 'Cherry'] quantity = [20,60,45,70] plt.pie(quantity, labels = fruit) plt.show()</pre> Banana
C	Apple Mango Cherry Changing Asthetics (colour)
	plt.pie(quantity, labels = fruit, autopct = '%0.1f%%', colors = ['yellow', 'grey', 'pink', 'turquoise']) plt.show()  Banana  30.8%  Apple  23.1%
	Cherry  DoughNut-Chart (modified pie chart)  fruit = ['Apple', 'Banana', 'Mango', 'Cherry'] quantity = [20,60,45,70] plt.pie(quantity, labels = fruit, radius = 2) plt.pie([1], colors = ['w'], radius = 1)
	plt.pie([1], colors = ['w'], radius = 1)  #The Above command makes a blank pie-chart with white colour whoes radius is smaller than the outer of plt.show()  Banana