



INDIAN SCHOOL AL WADI AL KABIR  
Worksheet, 2020-21

<b>Class: XII</b>	<b>SUB: INFORMATICS PRACTICES</b>	<b>Date of Completion:</b>
<b>Worksheet No:9</b>	<b>TOPIC : Practical questions- Data Visualization</b>	<b>Note: To be written in the Record book</b>

1. Write a program to plot and display a bar graph of 5 subjects and the number of students in each subject where subject and no. of students are represented as lists.
2. Write a python code to plot the following with the given dataset:  
[18,5,12,24,38,35,57,69,40,63,77,33,47,58,89,26,38,21,46,8,9,67]
  1. simple histogram
  2. Horizontal Histogram
  3. Step Histogram
3. Write a Python program to draw a histogram with the following information:  
1 1 3 3 3 1 2 2 2 3 2 5 2  
0 4 0 4 0 5 0 4 0 4 0 5 5  
The histogram should contain the following information:
  - (i) X-axis label should be score and Y-axis should be Frequency.
  - (ii) The title should be Frequency of Score.
  - (iii) The colour of histogram should be YELLOW with 10 bins.Use proper import statements in the program.
4. A dictionary contains the details of class and strength of each class Create a dataframe from the dictionary. Write a python code to display a bar chart of the data from the dataframe. Use different colors for each bar .  
Class : I, II , III, IV, V, VI  
Strengths: 40,43,45,47,49,38
5. Write a code to plot line graph for  $y=4x^2 + 5$