



INDIAN SCHOOL NIZWA

INFORMATICS PRACTICES

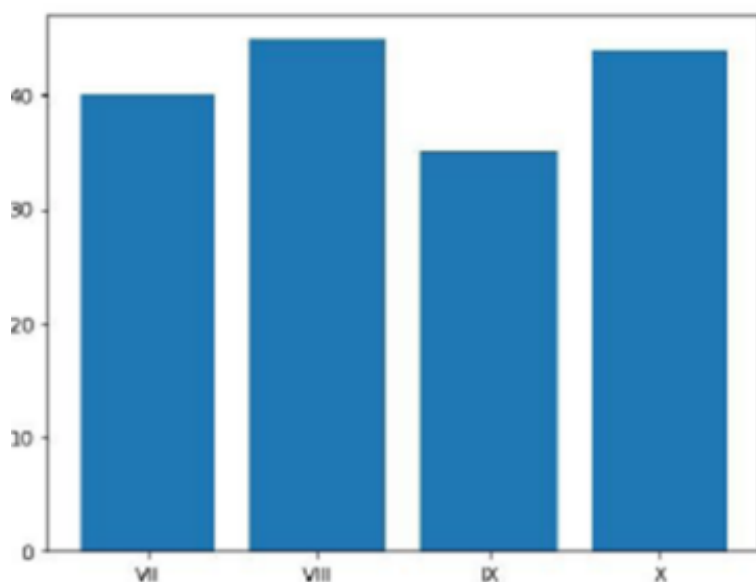
CH 3 PLOTTING WITH PYPLOT - Worksheet

CLASS XII

- 1 District wise total number of houses are represented in the following table:

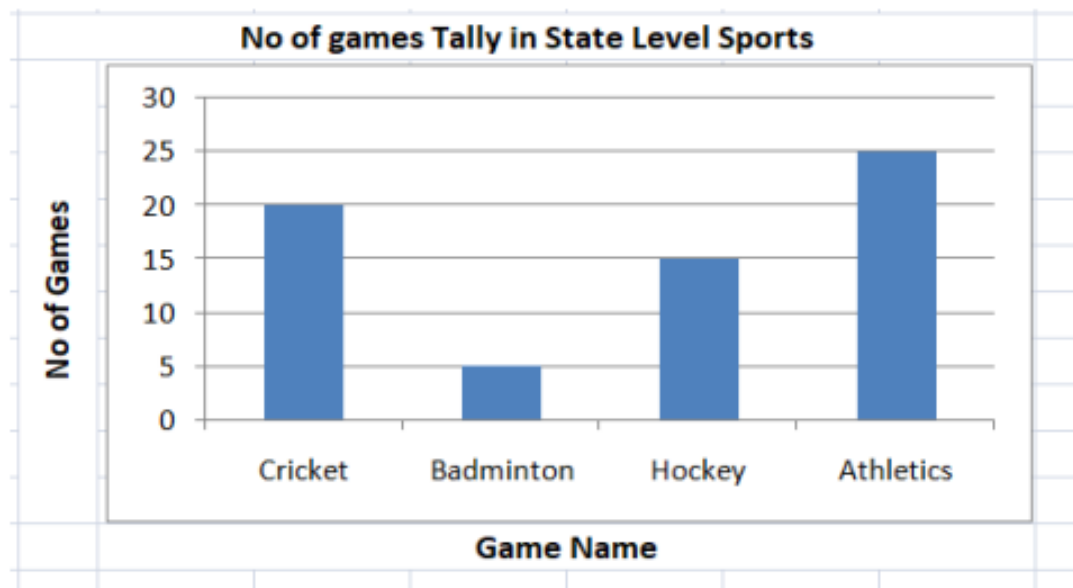
Dist VII	Dist VIII	Dist IX	Dist X
40	45	35	44

Draw the following bar graph representing the number of houses in each District(Dist VII, Dist VIII, Dist IX, Dist X).



Also, give suitable python statement to save this chart in E: drive of the computer with name 'house.png'.

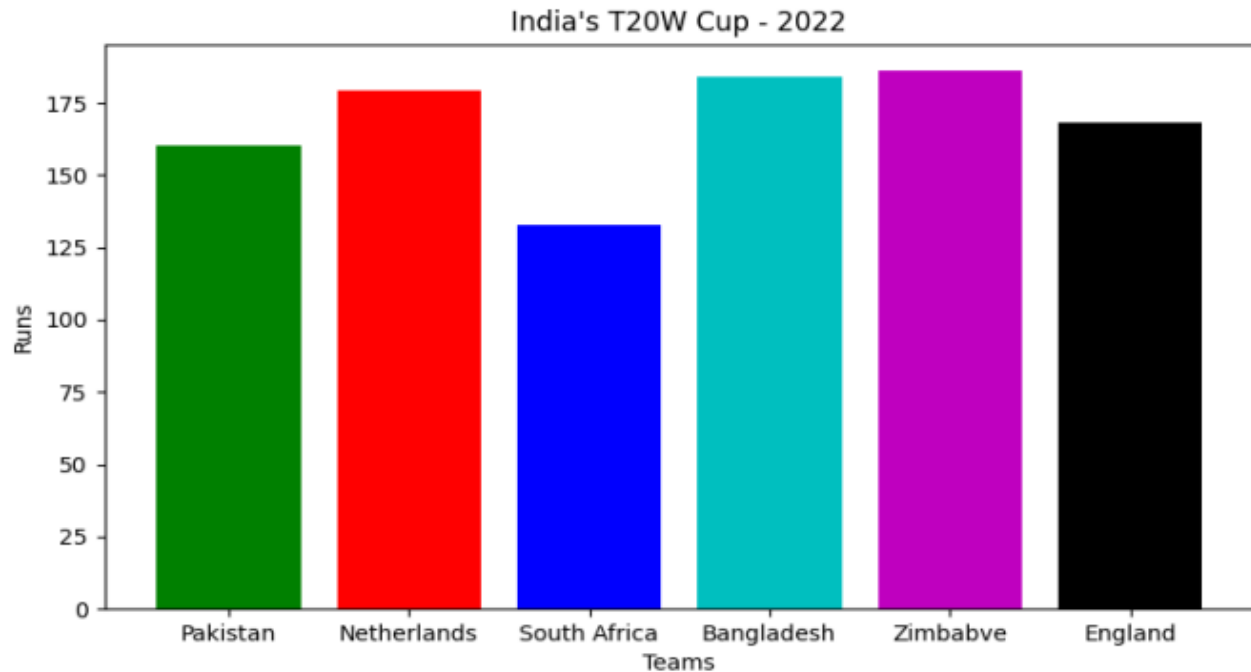
- 2 Write Python code to plot a bar chart for No of Games Tally in State Level Sports shown below:



Also give suitable python statement to save this chart.

- 3 Write a Python program to display a bar chart of the popularity of programming Languages Data:
Programming languages: Java, Python, PHP, JavaScript, C#, C++
Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7
Also give suitable python statement to save this chart

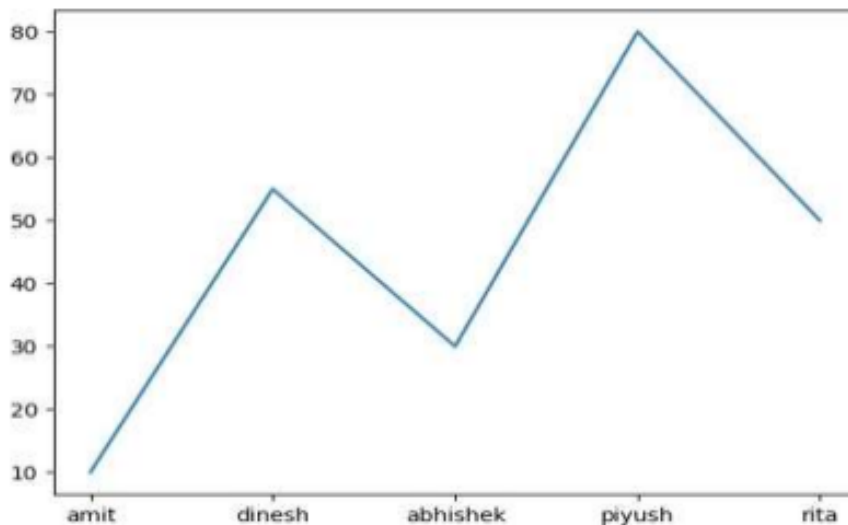
- 4 **33.** Write python code to plot a bar chart for India's runs in T20 World cup as shown below:



Colours: Pakistan – Green, Netherlands – red, South Africa – Blue, Bangladesh – Cyan, Zimbabwe – Magenta, England - Black
Apply appropriate labels to the chart and x and y axis.

- 5 Write a Python program to display a bar chart of the popularity of programming Languages Data:
Programming languages: Java, Python, PHP, JavaScript, C#, C++
Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7
Also give suitable python statement to save this chart

- 6 Observe the following figure. Identify the coding for obtaining this as output.



Also give suitable python statement to save this chart

OR

Write a Python program to display a bar chart of the popularity of programming Languages

Data:

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

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

Also give suitable python statement to save this chart

- 7 Write python code to depict the data of India/England semi final runs by over on line chart. The data as following:

Overs	5	10	15
India	31	62	100
England	52	98	156

- Display the overs as same as given here on x-axis.
- Apply the line colours as – India : Blue, England: Red
- Apply appropriate labels
- Apply chart label – T20W Cup 2022 : Semi-final 2

- 8 Write python code to plot a histogram of random values with bins as 20