



INDIAN SCHOOL AL WADI AL KABIR
Worksheet, 2021-22

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| Class: XII | SUB: INFORMATICS PRACTICES | Date of Completion: |
| Worksheet No:7 | TOPIC : MCQ's for Matplotlib | |

Q1. It means graphical or pictorial representation of the data using graph, chart, etc.

- a. Data visualization
- b. Visual Data
- c. Matplot
- d. None of the above

Ans. a. Data visualization

Q2. Which of the following library to be imported for creating chart in python?

- a. Matplotlib
- b. Pandas
- c. Math
- d. Random

Ans. a. Matplotlib

Q3. Which module of matplotlib library is required for plotting of graph?

- a. plot
- b. matplot
- c. pyplot
- d. None of the above

Ans. c. pyplot

Q4. Which of the following command is correct to install matplotlib?

- a. pip install matplot
- b. pipe install matplotlib
- c. pip install matplotlib
- d. None of the above

Ans. c. pip install matplotlib

Q5. function of the pyplot module is used to create a figure/chart/plot.

- a. show()
 - b. plotting()
 - c. plot()
 - d. plots()
- Ans. c. plot()

Q6. A figure/chart contains _____

- a. Plotting area
- b. Legend
- c. Axis labels
- d. All of the above

Ans. d. All of the above

Q7. function is used to display figure/chart.

- a. showing()
- b. show()
- c. display()
- d. screen()

Ans. b. show()

Q8. To plot x versus y, we can write _____

__ #plt is an alias for matplotlib.pyplot

- a. plt.plot(y, x)
- b. plt.plot(x)
- c. plt.plot(x,y)
- d. None of the above

Ans. c. plt.plot(x,y)

Q9. Values which are displayed on x-axis is called _____

- a. y ticks
- b. x ticks
- c. xy ticks
- d. None of the above

Ans. b. x ticks

Q10. Values which are displayed on y-axis is called _____

- a. y ticks
- b. x ticks
- c. xy ticks
- d. None of the above

Ans. a. y ticks

Q11. plot(a, b) is provided with two parameters, which indicates values for _____

- a. x-axis and y-axis, respectively
- b. y-axis and x-axis, respectively
- c. x-axis only
- d. None of the above

Ans. a. x-axis and y-axis, respectively

Q12. By default plot() function plots a _____

- a. Histogram
 - b. Bar graph
 - c. Line chart
 - d. Pie chart
- Ans. c. Line chart

Q13. Which of the following function is used to save the figure/chart?

- a. save()
 - b. savefigure()
 - c. savefig()
 - d. None of the above
- Ans. c. savefig()

Q14. Name of the figure is passed to the function as parameter.

- a. plot()
 - b. show()
 - c. savefig()
 - d. None of the above
- Ans. c. savefig()

Q15. Which of the following pyplot function is used to plot histogram.

- a. histogram()
 - b. histo()
 - c. histochart()
 - d. hist()
- Ans. d. hist()

Q16. Which of the following pyplot function is used to plot bar graph.

- a. bargraph()
 - b. bar()
 - c. barchart()
 - d. oval()
- Ans. b. bar()

Q17. Which of the following pyplot function is used to set the label for the x-axis.

- a. xlabeled()
 - b. xlabel()
 - c. x_axis_label()
 - d. None of the above
- Ans. b. xlabel()

Q18. Which of the following pyplot function is used to set a title for the chart.

- a. Title()
 - b. c_title()
 - c. title()
 - d. None of the above
- Ans. c. title()

Q19. To show the grid lines in plot, we can write _____
__ #plt is an alias of matplotlib.pyplot

- a. plt.grid()
 - b. plt.grid(True)
 - c. Both of the above
 - d. None of the above
- Ans. c. Both of the above

Q20. A is any symbol that represents a data value in a line chart.

- a. marker
 - b. mark
 - c. marks
 - d. None of the above
- Ans. a. marker

Q21. 'marker' is an attribute of function.

- a. show()
 - b. plot()
 - c. display()
 - d. None of the above
- Ans. b. plot()

Q22. Write a statement to display "Amount" as x-axis label. (consider plt as an alias name of matplotlib.pyplot)

- a. plt.label("Amount")
 - b. plt.xlabel("Amount")
 - c. plt.xlabel(Amount)
 - d. None of the above
- Ans. b. plt.xlabel("Amount")

Q23. Write a statement to "use * as marker" . (consider plt as an alias name of matplotlib.pyplot)

- a. plt.plot(h, w, marker = "*") #h and w are data representing x axis and y axis
 - b. plt.plot(h, w, mark = "*") #h and w are data representing x axis and y axis
 - c. plt.marker("*")
 - d. None of the above
- Ans. a. plt.plot(h, w, marker = "*") #h and w are data representing x axis and y axis

Q24. Series and DataFrame have their own function.

- a. show()
- b. plot()
- c. both of the above
- d. none of the above

Ans. b. plot()

Q25. If we have a Series type object (let's say 's1') we can call the plot method by writing _____

- a. s1.plot()
- b. plot(s1)
- c. s1.plot(s1)
- d. None of the above

Ans. a. s1.plot()

Q26. Which attribute of plot() function help to specify the type of chart?

- a. type
- b. kind
- c. kinds
- d. types

Ans. b. kind

Q27. Statement to plot a line chart for data stored in a DataFrame 'df' is _____

- a. df.plot(line)
- b. plot(df, line)
- c. df.plot(kind = "line")
- d. None of the above

Ans. c. df.plot(kind = "line")

Q28. Attribute/parameter to set marker size is _____

- a. marker size
- b. sizeofmarker
- c. markersize
- d. None of the above

Ans. c. markersize

Q29. A_ plot is a graph that shows the frequency of data along a number line.

- a. line
- b. box
- c. histogram
- d. bargraph

Ans. a. line

Q30. Which attribute of plot() function is used to set the width of line in line plot?

- a. widthline
 - b. linewidth
 - c. widthoffline
 - d. none of the above
- Ans. b. linewidth

Q31. Which attribute of plot() function is used to set the style of line in line plot?

- a. linestyle
 - b. styleline
 - c. styleoffline
 - d. none of the above
- Ans. a. linestyle

Q32. Which attribute of plot() function is used to set the edge color of bar in bar chart?

- a. bordercolor
 - b. colorofedge
 - c. edgecolor
 - d. none of the above
- Ans. c. edgecolor

Q33. Which attribute of plot() function is used to set the different color of bars in bar chart?

- a. color
 - b. barcolor
 - c. colorbar
 - d. none of the above
- Ans. a. color

Q34. These are column-charts, where each column represents a range of values, and the height of a column corresponds to how many values are in that range.

- a. Bar graph
 - b. Histograms
 - c. Line chart
 - d. pie chart
- Ans. b. Histograms

Q35. Which parameter of plot() function help to set the values of bins in Histogram?

- a. bin
 - b. bins
 - c. binvalue
 - d. none of the above
- Ans. b. bins

Q36. Which attribute is used to change the border color of each hist in histogram?

- a. border color
- b. colorofborder
- c. edgecolor
- d. none of the above

Ans. c. edgecolor

Q37. What is the default value of fill property in plot() function of creating histogram?

- a. True
- b. False
- c. Green
- d. Black

Ans. a. True

Q38. Fill in the blank in the given code, if we want to plot a line chart for values of list 'a' vs values of list 'b'.

```
a = [1, 2, 3, 4, 5]
b = [10, 20, 30, 40, 50]
import matplotlib.pyplot as plt
plt.plot _____
```

- a. (a, b)
- b. (b, a)
- c. [a, b]
- d. None of the above

Ans. a. (a, b)

Q39. Which of the following is used to design 2D charts/graphs/figures?

- a. matplotlib.pythonplot
- b. matplotlib.pyplot
- c. matplot.pyplot
- d. none of the above

Ans. b. matplotlib.pyplot

Q40. The following code will create _____ .

```
import matplotlib.pyplot as pl
a = [1,2,3,4,5]
b = [10, 20, 30, 40, 50]
c = [5, 10, 15, 20, 25]
pl.plot(a,b)
pl.plot(a,c)
pl.show()
```

- a. line chart
- b. bargraph

- c. histogram
- d. None of the above

Ans. a. line chart

Q41. The following code will show lines in the figure/chart.

```
import matplotlib.pyplot as pl
```

```
a = [1,2,3,4,5]
```

```
b = [10, 20, 30, 40, 50]
```

```
c = [5, 10, 15, 20, 25]
```

```
pl.plot(a,b)
```

```
pl.plot(a,c)
```

```
pl.show()
```

a. 1

b. 2

c. 3

d. 4

Ans. b. 2

Q42. The following statement will create line plot of_ color.

```
pl.plot(a, b, 'g') #a and b are list
```

a. black

b. yellow

c. green

d. magenta

Ans. c. green

Q43. Which of the following chart can not be created by using matplotlib.pyplot ?

a. Box

b. Stats

c. Pie

d. Line

Ans. b. Stats

Q44. Which of the following function is used to plot a line chart?

a. line()

b. linechart()

c. plot()

d. plotter()

Ans. c. plot()

Q45. Which function is used to display the legend in plot?

a. legend

b. Legend

c. legends

d. All of the above

Ans. a. legend

Q46. Which of the following function will create bar chart?

a. bar()

b. barh()

c. Both of the above

d. None of the above

Ans. c. Both of the above

Q47. The following code will create _____

`pl.plot(a) #a is a list and pl is an alias of matplotlib.pyplot`

a. line chart with no values on x axis

b. line chart with no values on y axis

c. line chart with values on both the axis

d. None of the above

Ans. c. line chart with values on both the axis

Q48. `df.plot(kind='hist')` function automatically selects the size of the bins.(T/F)

a. True

b. False

Ans. a. True