HISTOGRAM AND QUANTILES
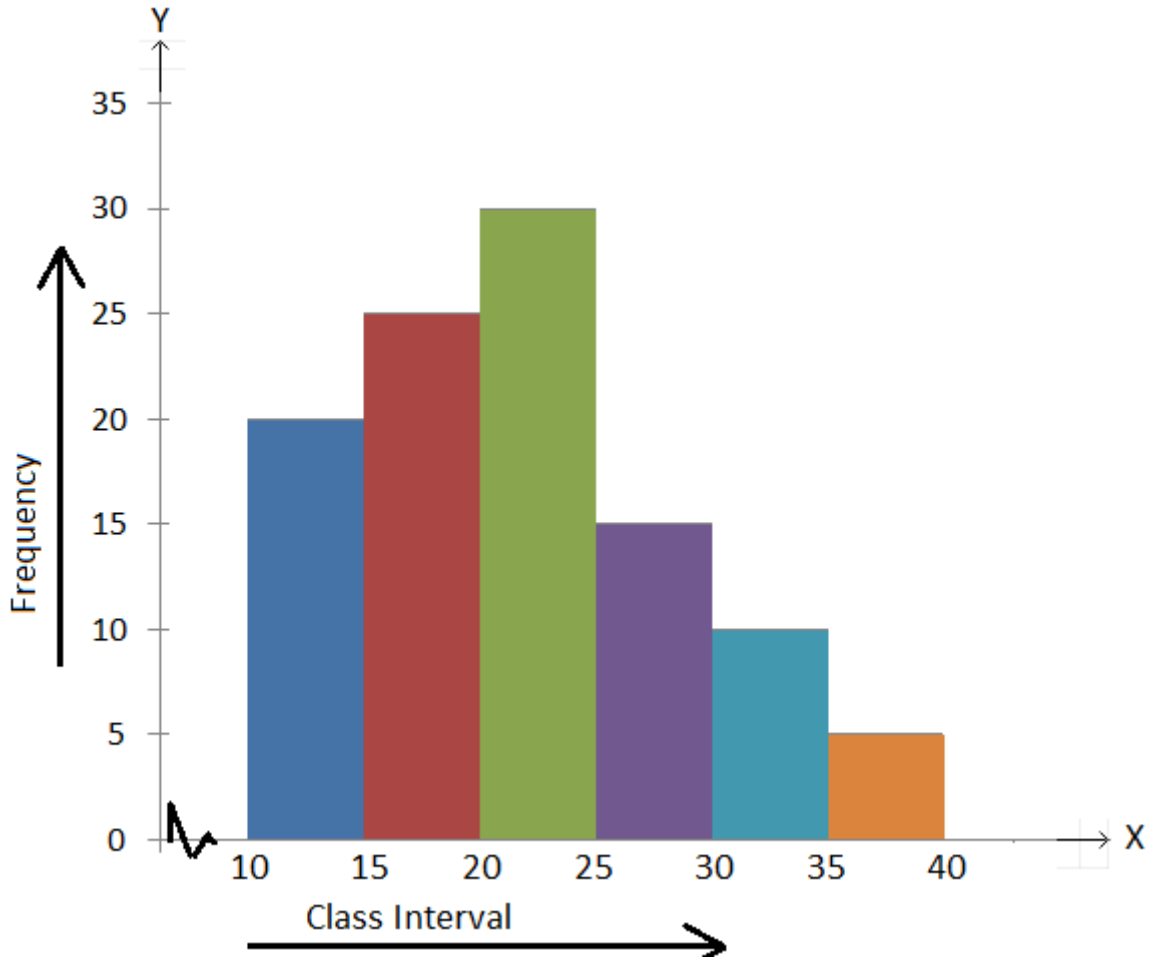
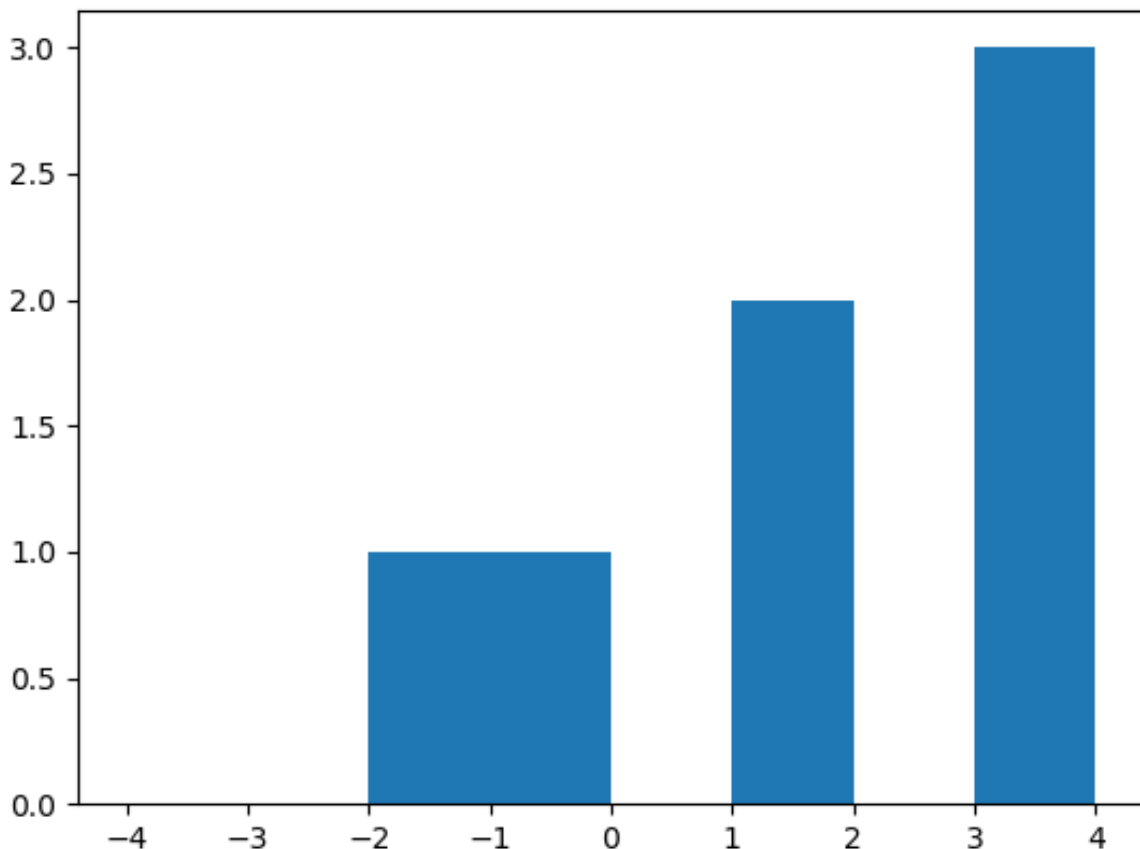Q.1 The histogram for a frequency distribution is given below.

Answer the following.

(i) What is the frequency of the class interval 15 – 20?

(ii) What is the class intervals having the greatest frequenciey?

(iii) What is the cumulative frequency of the class interval 25 – 30?

(iv) Construct a short frequency table of the distribution.

(v) Construct a cumulative frequency table of the distribution.

Q.2 Draw histogram programmatically in python with following frequency of scores 1,1,2,2,2,2,2,3,3,3,3,4,4,5 with range (bins) starting from 1 to 5.

Q.3 Below is a grouped frequency table of the heights of plants growing in a garden. Construct a histogram of the data.

Height,h (cm)	Frequency
0<h<=10	3
10<h<=20	2
20<h<=24	4
24<h<=30	5
30<h<=50	1

Q.4 Draw the following histogram using python program.

Q.5 Draw the histogram for population_ages = [22, 55, 62, 45, 21, 22,34,42,42,4,99,102,110,120,121,122,130,111,115,112,80,75,65,54 ,44,43,42,48] and bins = [0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110,120,130] through python program with suitable title and label.

Q.6 How to choose bins in Matplotlib histogram?

Q.7 Write a Program in python to find 0.75 quantile of series[1, 10, 20,40,60,70,80,90,100]

Q.8 Solve the question no 7 using solution steps.

(Steps given in program part of histogram and quantile)