

G. H. Raison College Of Engineering And Management, Wagholi Pune

2021- 2022

Group C :-Assignment no :-17

Department

CE [SUMMER 2022 (Online)]

Term / Section

III/B

Date Of submission

13-12-2021

Subject Name /Code

Python for Data Science / UCSP204

Roll No.

SCOB77

Name

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Registration Number

2020AC0E1100107

## Group: Assignment No 17

### # Aim:-

Plot Line and Scatter charts for Students interests in programming against their year in the Engineering college. Derive a distribution of the same over 10 years using a histogram.

### # Theory:-

#### ■ Matplotlib.pyplot in Python

It is a collection of functions that makes matplotlib work like MATLAB. Each pyplot function makes some change to a figure:

eg. creates a plotting area in figure, etc.

#### ■ Histogram:

hist() function is used to create histogram in python

A histogram is a graph showing frequency distribution

### # Conclusion:-

Hence we conclude that using matplotlib library we have plot different graph year wise which represents students are interested in different programming language.

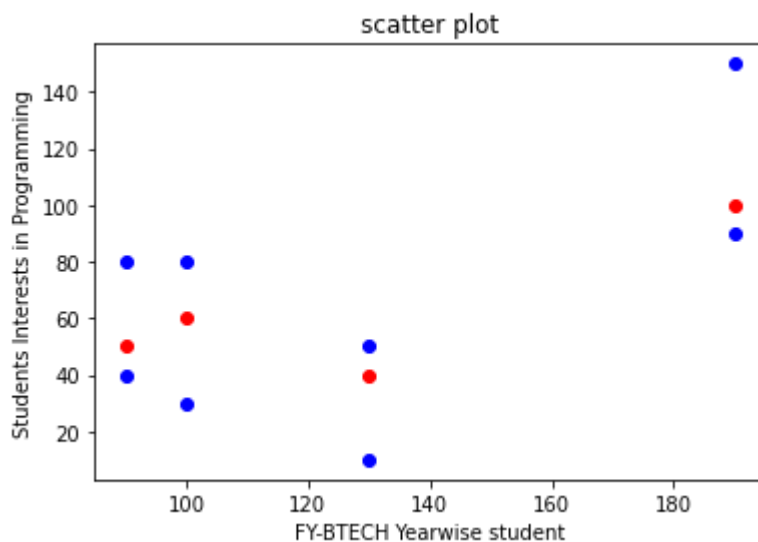
In [5]:

```
print("*****")
print("SCOB77_Pratham pittu_Group c Assignment 17")
print("*****")
import matplotlib.pyplot as plt
Java= [60, 40, 50, 100]
C= [30, 50, 40, 90]
Python=[80,10,80,150]
Total_stud= [100, 130, 90, 190]
plt.scatter(Total_stud, Java, color='r')
plt.scatter(Total_stud, C, color='b')
plt.scatter(Total_stud, Python, color='b')
plt.xlabel('FY-BTECH Yearwise student')
plt.ylabel('Students Interests in Programming')
plt.title('scatter plot')
plt.show()
```

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In [ ]: