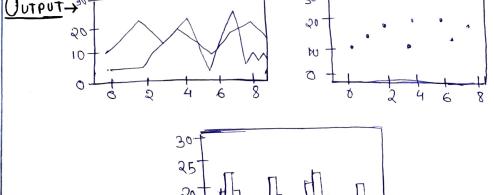
Assignment - 3

1. CODE: import pandas as pd import numpy as no import natpollib. pyplot as plt If z pd. Data Frame (data = { 'a': np. random randint (0, 30, 10), b': np. random. randint (0, 30, 10), 10: np. random randint (0, 30, 10)}) fig, (0x1, 0x2) = pl+. subplots (2,1, figsize = 10,5)) ax 1. plat (df['a'], color = 'green', label z' Goreen') ax 1 ·plot (df ['b'], color z' orange', label z' Oxange') ax 1. legend (boc 2 'upper center') ax 2. scatter (df. index, df['a'], color = 'green', Dalel z'a') ox 2. scotter (df. index, df['b'], color z'orange', label z'b') ox 2. scatter (df. index, df['c'], color = blue', label = 'c') ax 2. legend () plt.show() df. plot (Kind = bon', figsize = (10,5)) plt. show () OUTPUT-30 20



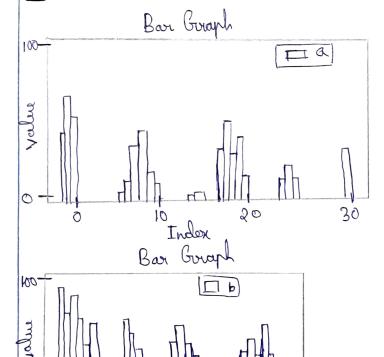
Name Debahuti Banerijee

Roll No.: 62

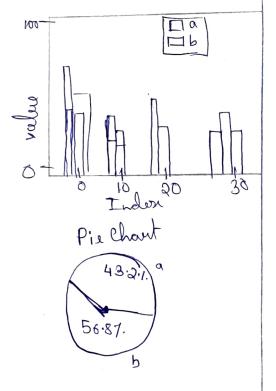
year: 3rd (2024)

2. CODE → fig (ax1, ax2) = plt. subplots (2,1, figsize = (10,5)) on 1. plot (df['a'], color = 'green', label = 'Goreen') ax 1. plot (df['b'], color= 'orange', label= 'Orange') ax 1. legend (loc = 'upper center') ax 2. scatter (df. index, df ['a'], color = 'green', label = 'a') ax 2. scatter (df. index, df['b'], color z' orange', label z'b')
ax 2. scatter (df. index, df['c'], color z'blue', label z'c') ax 2. legend () nlt. show ()

UOTPUT→



Stacked Box Gough



Name Debohuti Banerjee

Roll No. : 62

Section : A

year: 3rd (2024)

3. CODE - import medplotlib as plt import numpy as up # Data languages = ['Java', 'Python', 'PHP', 'Javascript', 'C#', 'C++'] popularity = [22.2, 17.6, 8.8, 8, 7.7, 6.7] fig an 1 = plt. subplots (figsize = (2,3)) colors = plt.cm. tal 20. colors bour = ax 1. bour (languages, popularity, color = coloris [: len (languages)]) an 1. set_title ('Popularity of Programming Languages')
an 1. set_xlabel ('Programming Languages') ('/.)') ytivalura ('Popularity ('/.)') plt.tight_layout() plt. show () Output -> Popularity of Programming Languages 15. Jours & the TPC# pummargar 9 Gorouped Bour Chart of Programming Languages Language Geroups Stacked Bas Chart of Programming Language Groups Language Geroup

Name Debohuti Banarjee

Roll No.: 62

year: 3 and (2024)