Certial Tendencies Assignments

1. Find the mean of the following data using hand and cond compare with numpy mean ()

$$U = \frac{11}{4} + \frac{21}{2} + \frac{51}{2} + \frac{31}{4} + \frac{21}{4} = \frac{11 + 42 + 102 + 3(1 + 2)}{5 \times 4}$$

$$= \frac{207}{2} = 10.35$$

3. Find the mean and median of first 5 pointe numbers.

$$u = \frac{142+3+5+7}{5} = \frac{18}{5} = 3.6$$

Median = n+1th
(n 1s add) = element =
$$\frac{5+1}{2}$$
 = 3rd element i.e. 3

The mean of 8,11,6,14, x and 13 is 66. Find be value of the observation x. $U = \frac{8+11+6+14+x+13}{6} = 66$ $0 = \frac{8+11+6+14+x+13}{6} = 66$ $0 = \frac{8+6-52}{12}$ $0 = \frac{6+8+(x+2)+10+(2x-0+2)}{6}$ $0 = \frac{8+11+6+14+x+13}{12} = \frac{6}{6}$ $0 = \frac{8+$

near of following distribution Mosts obtained by 40 students in exam are given below (25x8) + (20x 12) + (15x10) + (20x6) + (24x4) 200 + 360 + 150 + 120 + 96 926

7, Flad the made of the following data.
(9, 12,8,4,8,1,8,9,11,9,10,18,8

A) 1,4, 3,8,8,8,9,9,10,11,12,12

Made = 8 high-frequery

B, 15, 22, 17,19, 22, 17, 29, 24, 17,15

4) Arraphy in alending oxlir
15, 15, 17, 17, 19, 22, 22, 24, 29

Made = 17

F, 0,3,2,1,3,5,4,3,42,1,20

0,0,1,1,2,2,3,8,3,4,5,42

Mode =3

d, 1,7,2,4,5,9,8,3

1,2,3,4,5,7,8,9.

no number is repeated (i.e. month often).

. Following assorrations are already in avoiding order the

) 17, x, 24, x+7, 35, 36, 46

Median = n+1 th (odd n) or position - ++1 = 4th per.

17,18,24,25,35,36,46

?, IPI above problem, what is the approach if numbers one not in availing order, what are the possible values of X then.

If we assume x itself is median than x=25 x++ is median than <math>x=18.

In rest of the cases, we can't calculate x.

(0) Julia records temporature 3) Mean Made Mation can to

for d. Sam asks the Students in her class to identify their far-color and wants to know which color is most con