Taguig City University
Gen. Santos Avenue, Central Bicutan Taguig City

LABORATORY ACTIVITY #6
ELEC1: COMPUTATIONAL SCIENCE

Date: December 10, 2024

Class/Section: 2nd Year / Bscs C2022
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GENERAL INSTRUCTIONS: Read, understand and provide the needed requirements. Upload in our GClass with the filename: **SURNAME1_SURNAME2_SURNAME3_LABACT6.pdf ONLY ONE WILL SUBMIT.**

Seatwork: Grouped Frequencies Distribution

Maximum Wind Speeds The data show the maximum wind speeds in miles per hour recorded for 40 states. Construct a frequency distribution using 7 classes.

59	78	62	72	67
76	92	77	64	83
64	70	67	75	75
78	75	71	72	93
68	69	76	72	85
64	70	77	74	72
53	67	48	76	59
87	53	77	70	63

Source: NOAA

Solutions:

Range = Maximum Value – Minimum Value

Range = 93 – 48

Range = 45

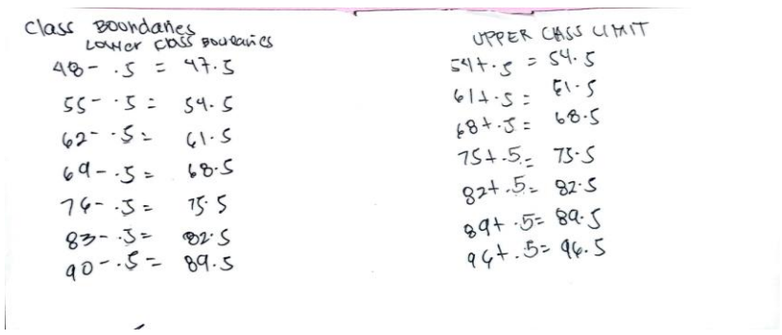
Width = Range / Number Of Classes

Width = 45 / 7

Width= 6.43 (7 round up)

LOWER CLASS LIMIT

48 + 7 = 55
55 + 7 = 62
62 + 7 = 69
69 + 7 = 76
76 + 7 = 83
83 + 7 = 90



UPPER CLASS LIMIT

55 - 1 = 54
54 + 7 = 61
61 + 7 = 68
68 + 7 = 75
75 + 7 = 82
82 + 7 = 89
89 + 7 = 96

Requirements: Complete the table below and answer the range and width show your solution

Class	Class Boundaries	Tally	Frequency (f)	Cumulative Frequency (cf)
48-54	47.5 – 54.5	III	3	3
55-61	54.5 – 61. 5	II	2	5
62-68	61.5 – 68.5	~~IIII~~ - II	7	12
69-75	68.5 – 75.5	~~IIII~~ -~~IIII~~ - II	12	24
76-82	75.5 – 82.5	~~IIII~~ - II	7	31
83-89	82.5 – 89.5	IIII	4	35
90-96	89.5 – 96.5	II	2	37
			= 30	

(a) Range: 45
(b) Width: 6.43 (7 round up)