

CS3101 - COMPUTATIONAL THINKING LAB

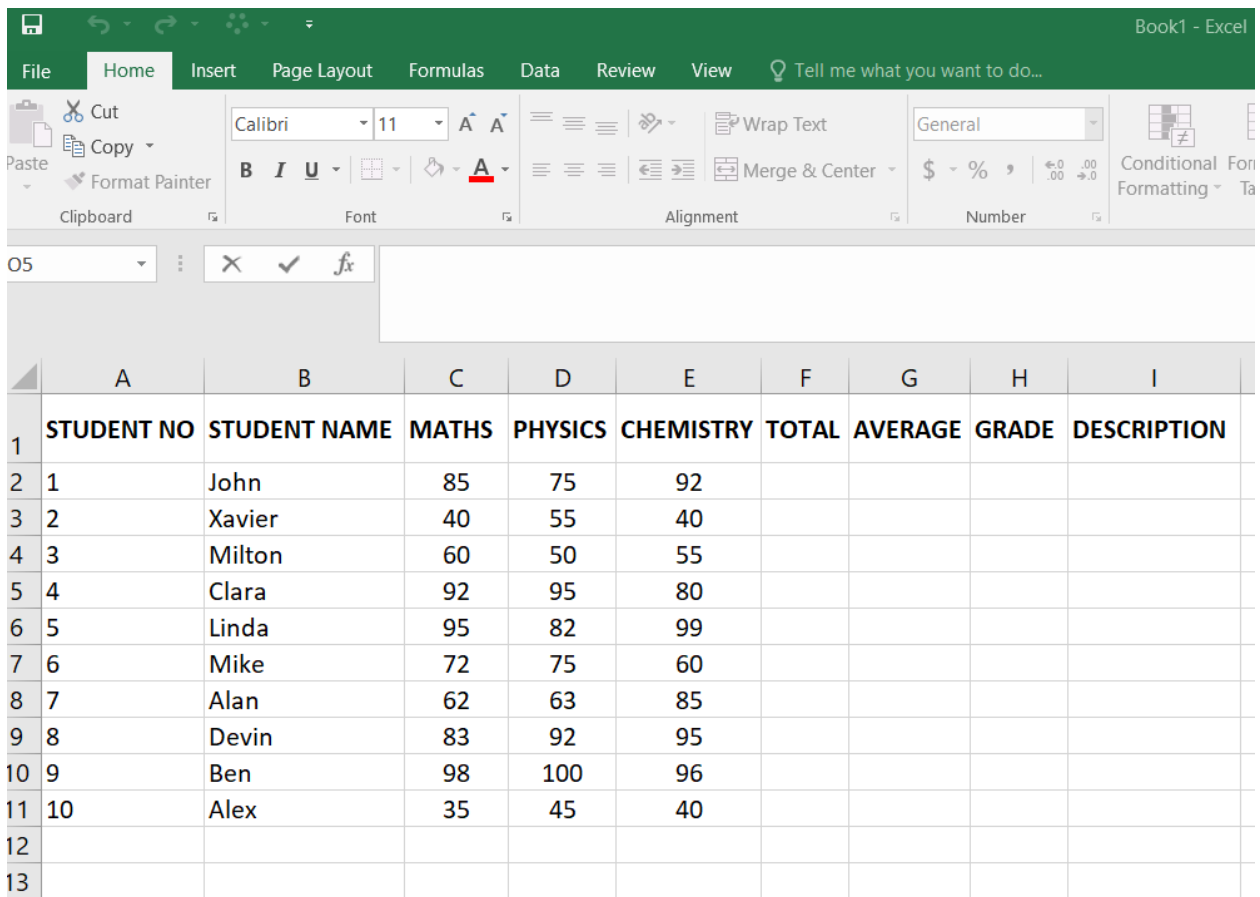
(Week 6 – 26.10.2023)

EXCEL FORMULAS & FUNCTIONS

EXECUTION & SPOT

Question 1:

Let us consider 3 subject marks for ten students in a class in the board exam. The data is entered into the spread Sheet as Shown below:



The screenshot shows the Microsoft Excel interface with the following data in the spreadsheet:

	A	B	C	D	E	F	G	H	I
1	STUDENT NO	STUDENT NAME	MATHS	PHYSICS	CHEMISTRY	TOTAL	AVERAGE	GRADE	DESCRIPTION
2	1	John	85	75	92				
3	2	Xavier	40	55	40				
4	3	Milton	60	50	55				
5	4	Clara	92	95	80				
6	5	Linda	95	82	99				
7	6	Mike	72	75	60				
8	7	Alan	62	63	85				
9	8	Devin	83	92	95				
10	9	Ben	98	100	96				
11	10	Alex	35	45	40				
12									
13									

- Find the total and average of each students under the column called **Total** and **Average**.
- Consider the average marks as the students score. Calculate the grades of the students as per the grade rule table given below under the column called **Grade**.

Marks Range	Grade
Score \geq 90	A
90>Total Score \geq 80	B
80>Total Score \geq 70	C
70>Total Score \geq 60	D
60>Total Score \geq 50	E
Total Score < 50	F

- c. Students who pass need to have a total score greater than or equal to 50. Display the word “Pass” or “Fail” under a column called **Description**.
- d. Calculate the Maximum mark, Minimum mark, mean, median, standard deviation and variance.

Question 2:

Create your class time table in excel. Use different fonts and color options.