CS first exam final notes

- 1. You input **data** that gets processed and then turns into output as **information**.
- 2. Strings should be enclosed with quotes (1 quote for a single character, and 2 for more than 1 character)
- Booleans are status indicators. they can either be TRUE or False
- 4. <> means not equal. And it's >= not =>
- 5. The Mod has the priority before +, -
- 6. Question: increment x by 3
 Answer: x= x+3 **not** x+3 alone; should be with the equal sign.
- 7. In a flow chart, the rectangle is for assignment statements, and the Parallelogram (متوازي أضلاع) is only for input.../ output.... / Print... Etc.
- 8. You sort 2 columns at the same time from the custom sort (Home → sort and filter → custom sort)
- 9. In advanced filtering, for a question that has **and** in it (for example >50 and is green), the 2 conditions should be in the same row

Color	Department	Cost	Quantity	TotalValue	Month
Green		>50)		

If it is or (>50 or is green), they should be in different rows

Color	Department	Cost	Quantity	TotalValue	Month
Croon					
Green					

If it has double "ands" for the same column (>50 and <90), we copy and paste the column at the end of the row and write the second condition.

Туре	Department	Cost	Quantity	TotalValue	Month	Cost	
		>50				<90)

- 10. **EVERYTHING** that is related to a chart's properties is found by right clicking on them and going to (format....)
- 11. The results of the if/countif functions should be enclosed with double quotations in writing the function.
- 12. Mean: = average (cell range)Standard deviation: =stdev(cell range)
- 13. In correlations, from -1 to -0.5 is inversely strong, -0.5 to 0 is inversely weak, 0 to 0.5 is directly weak and from 0.5 to 1 is directly strong. (Directly/Positively)
- 14. Test measurements rules:
 - a. Sensitivity=TP/(TP+FN)
 - b. Specificity= TN/ (TN +FP)
 - c. PPV = TP/(TP + FP)
 - d. NPV = TN/(TN + FN)
 - e. Accuracy = (TP + TN)/(TP + TN + FP + FN)
- 15. Pivot tables have the ground truth as columns, test results as rows, and patient numbers as values.