

CEE 3804 Assignment 2 Solution

Problem 1

- a) Graphical user interface (GUI)
- b) The number of transistors and other components on integrated circuits will double every two years
- c) Advanced Research Projects Agency Network (ARPANET) was the first large-scale experiment in general-purpose computer networking and then it evolved as part of a fertile collaboration among government, academia, and industry.
- d) She led the team that created the on-board flight software for NASA's Apollo command modules and lunar modules.
- e) It is the smallest controllable element of a picture represented on the screen.
- f) General Motors
- g) Frontier, 606,208 CPU cores
- h) 1983
- i) J-Phone camera: 110,000 pixels and iPhone 11: 12 MP
- j) It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation

Problem 2

- a) Example for a computer with an Intel i9 system

Processor	Intel(R) Core(TM) i9-10900 CPU @ 2.80GHz 2.81 GHz
Installed RAM	64.0 GB (63.7 GB usable)

- b) Clock speed = 2.80GHz
- c) RAM = 64 GB
- d) NVIDIA GeForce GTX 1660Ti
- e) 1,023,551,787,008 bytes

Item	Value
Drive	C:
Description	Local Fixed Disk
Compressed	No
File System	NTFS
Size	953.26 GB (1,023,551,787,008 bytes)
Free Space	688.50 GB (739,268,722,688 bytes)
Volume Name	
Volume Serial Number	96399973

Problem 3

b) CONCATENATE(G2,"_",H2) and then drag the fill handle

c) New column J=VLOOKUP(D2:D117,M1:N5,2)

M	N
Weight Range (lbs)	New Weight Category
0	Very Light
2800	Light
3200	Medium
4000	Heavy

d) O2=COUNTIF(J2:J117,N2)

O3=COUNTIF(J2:J117,N3)

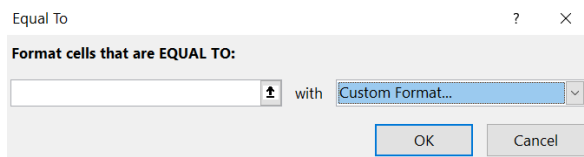
O4=COUNTIF(J2:J117,N4)

O5=COUNTIF(J2:J117,N5)

M	N	O
Weight Range (lbs)	New Weight Category	Counts
0	Very Light	47
2800	Light	31
3200	Medium	34
4000	Heavy	4

e) select column J<<Conditional Formatting<<Highlight Cells Rules<<Equals to<<

Example of Heavy



Left blank: Heavy

Right: Drop-down menu<<Custom Format<<Fill<<Red

Problem 4

15 year loan solution:

Loan	4600000	dollars	
Number of Periods	180	periods in loan	
Interest	6.2%	percent	
Monthly Payment	(\$39,114.12)		
Total Payment	(\$7,040,541.15)		
Interest	\$2,440,541.15		

10 year loan solution:

Loan	4600000	dollars	
Number of Periods	120	periods in loan	
Interest	6.2%	percent	
Monthly Payment	(\$51,267.77)		
Total Payment	(\$6,152,132.76)		
Interest	\$1,552,132.76		