NOTE: Use of internet is not permitted, calculators are permitted and your answers must include worked solutions. If you require extra sheet(s) please write your name and student number at the top of each additional sheet.

Objective

Complete exam questions d, e, and f below

Detail the computations for subtracting the numbers below in binary utilising 8-bit complimentary addition $32-16_{10} \label{eq:2.16}$

(8 marks)

(e) Convert hexadecimal number which is a hexadecimal representation of an IEEE Single Precision Floating Point number.

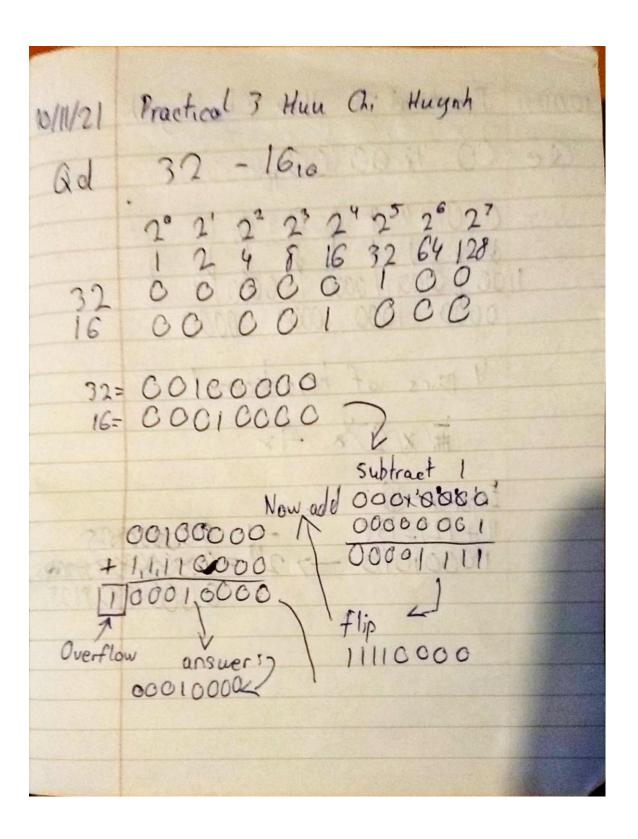
 $C0\ 48\ 00\ 00_{16} \equiv\ Decimal_{10}$

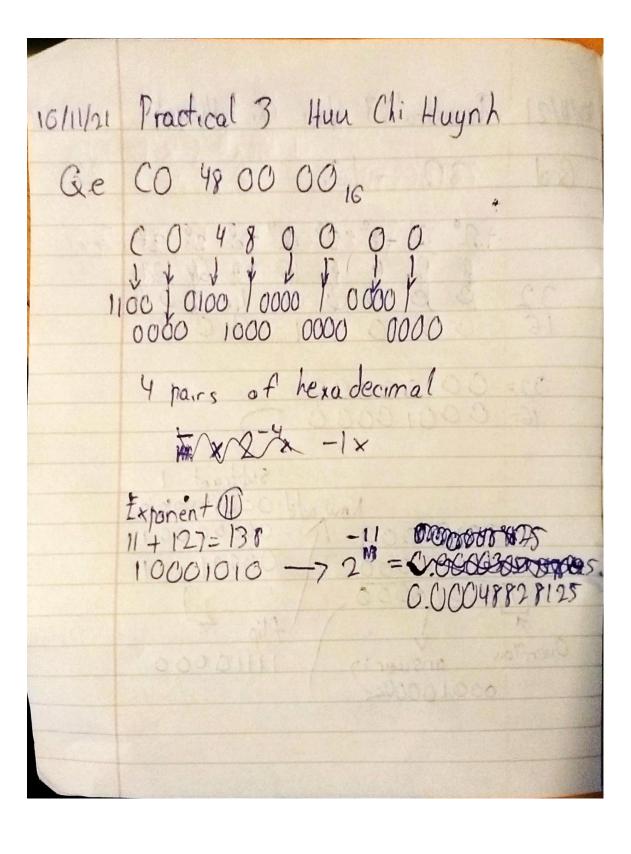
(8 marks)

Given that the ASCII value for 'A' is 41_{16} , Space is 20_{16} and 'a' is 61_{16} convert the hexadecimal string below into a string

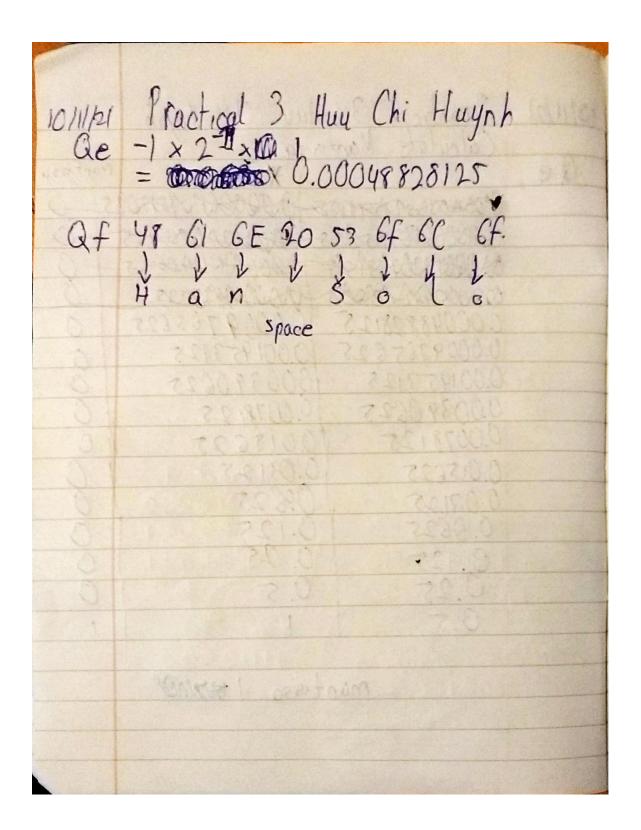
 $48\ 61\ 6E\ 20\ 53\ 6F\ 6C\ 6F \equiv\ string_{char}$

(6 marks)





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	0.0009765625 10.001953125 10			
	0.001953125 1000390625 0			
	0.00390625 0.0078125 0			
	0.0078125 10.015625 10			
	0.015625 0.03125 0			
	0.03125 10.625 0			
	0.125 0.25			
	0.25 0.5 10			
	0.5			
	mantissa 1 tamwo			



Hand up this practical report at the end of session and ensure it has been checked

Date	10/11/2021	Checked	
Group	Α		