## **Computer Logic 3**

1.	Why do we use 2's complement binary representation?		
2.		ary Arithmetic	
	a.	Represent the decimal number 95 in an 8-bit register.	
	b.	Represent the decimal number -120 in 8-bit two's complement.	
	Wo	Vorking:	
3.	Giv	ven a 9-bit register:	
	a.	What is the range of unsigned binary numbers that can be represented in this register? Give answer in both binary and decimal.	
	b.	What is the range of two's complement numbers that can be represented in such a register? Give answer in both binary and decimal	
	C.	Explain why the largest decimal number using 8-bit register in two's complement is 127 and not 128.	