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COMP 273 - SIDDIQI   Assignment 1   Sept 30.20

Q1.1.1) $741_{10} \rightarrow ?_2$

$741/2 = 370$	$R = 1$	0 1 0 1 1 1 0 0 1 0 1
$370/2 = 185$	$R = 0$	
$185/2 = 92$	$R = 1$	Answer:
$92/2 = 46$	$R = 0$	**1 0 1 1 1 0 0 1 0 1**
$46/2 = 23$	$R = 0$	
$23/2 = 11$	$R = 1$	
$11/2 = 5$	$R = 1$	
$5/2 = 2$	$R = 1$	
$2/2 = 1$	$R = 0$	
$1/2 = 0$	$R = 1$	
$0/2 = 0$	$R = 0$	

Q.1.1.2) $741_{10} \rightarrow ?_{16}$

$741/16 = 46$	$R = 5_{16} = 5$	0 2 E 5
$46/16 = 2$	$R = 14_{16} = E$	
$2/16 = 0$	$R = 2_{16} = 2$	Answer:
$0/16 = 0$	$R = 0_{16} = 0$	**2 E 5**

Q.1.1.3) $1.3515625_{10} \rightarrow ?_2$

$1_{10} = 001_2$,

$0.3515625 \times 2 =$	0.703125	001.01011010
$0.703125 \times 2 =$	1.40625	
$0.40625 \times 2 =$	0.8125	Answer:
$0.8125 \times 2 =$	1.625	**1.0101101**
$0.625 \times 2 =$	1.25	
$0.25 \times 2 =$	0.50	
$0.50 \times 2 =$	1.00	
$0.00 \times 2 =$	0.00	