
	<b>Computer</b>  <b>ECE 001</b>	
<b>Benha University</b>	<b>Computer Systems Engineering</b>  <b>Electrical Engineering Department</b>	<b>Faculty of Engineering</b>  <b>(at Shoubra)</b>

1. Convert each of the following binary representations to its equivalent base ten representation:

a.	1111	b.	0001	c.	10101	d.	1000	e.	10011
f.	00000	g.	1001	h.	10001	i.	100001	j.	11001

2. Convert each of the following base ten representations to its equivalent binary representation:

a.	7	b.	11	c.	16	d.	17	e.	31
f.	40	g.	52	h.	64	i.	78	j.	105

3. Convert each of the following octal numbers to its equivalent decimal numbers:



a.	0	b.	7	c.	8	d.	25	e.	42
f.	64	g.	129	h.	225	i.	333	j.	400

4. Convert each of the following decimal numbers to its equivalent octal numbers:

a.	0	b.	9	c.	10	d.	25	e.	42
f.	64	g.	128	h.	227	i.	333	j.	380

5. Convert each of the following octal numbers to its equivalent binary numbers:

a.	0	b.	7	c.	8	d.	25	e.	42
f.	64	g.	200	h.	320	i.	4830	j.	45601

	<b>Computer</b>  <b>ECE 001</b>	
<b>Benha University</b>	<b>Computer Systems Engineering</b>  <b>Electrical Engineering Department</b>	<b>Faculty of Engineering</b>  <b>(at Shoubra)</b>

6. Convert each of the following binary numbers to its equivalent octal numbers:

a.	0	b.	10	c.	110	d.	1001
f.	1111011	g.	11100000	h.	1010101010	i.	100111001

7. Convert each of the following decimal numbers to its equivalent hexadecimal numbers:

a.	0	b.	9	c.	10	d.	25	e.	42
f.	150	g.	222	h.	543	i.	850	j.	954

8. Convert each of the following hexadecimal numbers to its equivalent decimal numbers:

a.	0	b.	9	c.	A	d.	A1	e.	1A
f.	B2B	g.	ABC	h.	CBA	i.	5E1	j.	1E5

9. Add each of the following binary numbers:

a.	$\begin{array}{r} 10 \\ + 01 \\ \hline \end{array}$	b.	$\begin{array}{r} 1010 \\ + 1011 \\ \hline \end{array}$	c.	$\begin{array}{r} 1011 \\ + 1110 \\ \hline \end{array}$
----	---	----	---	----	---