

## Esercitazione del 03/03/2005

1. Conversione binario  $\rightarrow$  decimale
  - a.  $1101_2 \rightarrow ?_{10}$
  - b.  $10101010_2 \rightarrow ?_{10}$
  - c.  $1000010_2 \rightarrow ?_{10}$
  - d.  $101100101_2 \rightarrow ?_{10}$
2. Conversione decimale  $\rightarrow$  binario
  - a.  $83_{10} \rightarrow ?_2$
  - b.  $478_{10} \rightarrow ?_2$
  - c.  $2471_{10} \rightarrow ?_2$
  - d.  $14123_{10} \rightarrow ?_2$
3. Conversione binario  $\rightarrow$  esadecimale
  - a.  $110101_2 \rightarrow ?_{16}$
  - b.  $10010011_2 \rightarrow ?_{16}$
  - c.  $110111000000_2 \rightarrow ?_{16}$
  - d.  $1101011101_2 \rightarrow ?_{16}$
4. Conversione esadecimale  $\rightarrow$  binario
  - a.  $0x5C \rightarrow ?_2$
  - b.  $0xF03 \rightarrow ?_2$
  - c.  $0x16C \rightarrow ?_2$
  - d.  $0x85A1 \rightarrow ?_2$
5. Somme binarie
  - a.  $100101_2 + 101_2 = ?_2$
  - b.  $11010111_2 + 1001011_2 = ?_2$
  - c.  $1101_2 + 101100101_2 = ?_2$
  - d.  $100101110_2 + 111000011_2 = ?_2$
6. Sottrazioni binarie
  - a.  $1001_2 - 110_2 = ?_2$
  - b.  $101_2 - 1101_2 = ?_2$
  - c.  $11101_2 - 1011_2 = ?_2$
  - d.  $1011_2 - 10101_2 = ?_2$  (*Eeguire i calcoli a 8 bit, segno compreso*)
7. Conversione in floating point secondo lo standard IEEE 754
  - a.  $-20,75_{10} = \langle s,e,m \rangle?$
  - b.  $-0,75_{10} = \langle s,e,m \rangle?$
  - c.  $+10_{10} = \langle s,e,m \rangle?$
  - d.  $-1,7_{10} = \langle s,e,m \rangle?$