

9 101011 (binary)

10 from right to left

11 $(1 \times 2^0) + (1 \times 2^1) + (0 \times 2^2) + (1 \times 2^3) + (0 \times 2^4) + (1 \times 2^5)$

12 $1 + 2 + 0 + 8 + 32$
 $\Rightarrow 43$ (decimal)

1 $43 \div 16 \Rightarrow 2$, remainder = 11

2 11 corresponds to B

so $\Rightarrow 2B$ (Hex)

3

9 93 (decimal)

10
$$\begin{array}{r} 2 \overline{) 93} 1 \\ 2 \overline{) 46} 0 \\ 2 \overline{) 23} 1 \\ 2 \overline{) 11} 1 \\ 2 \overline{) 5} 1 \\ 2 \overline{) 2} 0 \\ \phantom{2 \overline{) 2}} 1 \end{array}$$

1 \Rightarrow "1011101" (binary)

2 $93 \div 16 \Rightarrow 5$ remainder: 13

3 13 corresponds to D

4 $\Rightarrow 5D$ (Hex)