

**Solution Manual for Prelude to Programming 6th Edition
Venit Drake 013374163X 9780133741636**

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Solution Manual

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Chapter 2

2.	5
4.	10
6.	0
8.	scaled, exponent
10.	10^{-3}
12.	B
14.	D
16.	A
18.	D
20.	B
22.	T
24.	F
26.	F
28.	F
30.	T
32.	(a) 1110 ₂ (b) 111110 ₂ (c) 1111011010 ₂ (d) 1011011000000 ₂
34.	(a) 420 (b) 67
36.	(a) 564 (b) 4397
38.	(a) 12F ₁₆ (b) 100F ₁₆
40.	(a) AAA ₁₆ (b) 0FCD6 ₁₆
42.	(a) E8 ₁₆ (b) 1FF ₁₆
44.	(a) 00001010 ₂ (b) 00101011 ₂
46.	(a) 00100010 ₂ (b) 10100111 ₂
48.	(a) 00010111 ₂ (b) 10001001 ₂
50.	(a) 0.1011 ₂ (b) 0.0001 ₂
52.	(a) 10000.0110 ₂ (b) 1000011111.0001 ₂
54.	(a) 10001000 ₂ (b) 01111011 ₂
56.	$2^7 \times 1.010101_{0110}^1$
58.	(a) 43794000 ⁻ (b) +249.25

Challenges	
2.	(a) $12_{10} = 1Y_{12}$ (b) $563_{10} = 3XY_{12}$ (c) $2832_{10} = 1780_{12}$
4.	(a) 1101101010110110 (b) $(2^x - N) = 2^{16} - 9546 = 55990$ $55990_{10} = 1101101010110110_2$