WORKSHEET – ASCII

Start by searching the internet for an ASCII Chart with Binary.

Example problem
Convert the word Pat from ASCII to Binary.

Solution

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P = 01010000
a = 01100001
t = 01110100

So, Pat is 010100000110000101110100 in binary.
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Work

1. Answer the following:

a) If the character A has the ASCII value of 65, then character B has the value _____.

b) The ASCII character value of a is _____.

c) The ASCII character value of space (often shortened to SP) is _____.

d) An upper case letter will have an ASCII value range of _____ to _____.

e) A lower case letter will have an ASCII value range of _____ to _____.

f) Numbers in ASCII have an ASCII value range of _____ to _____.

g) ASCII stands for _____.

h) What is the binary ASCII value for the character A? _____

i) Convert the binary value from above to decimal. Answer: _____

j) How does the decimal value above compare to A's ASCII value? _____

2. Convert your first name into binary by looking up the binary value of each letter in the ASCII chart.

3. Convert the following from binary to ASCII by using the ASCII chart.

01001101 01100001 01111001 00100000 01110100 01101000 01100101 00100000 01100110 01101111 01110010 01100011 01100101 00100000 01100010 01100101 00100000 01110111 01101001 01110100 01101000 00100000 01111001 01101111 01110101 00101110

4. Verify your answers for Q2 and Q3 by using a ASCII to binary converter tool or a binary to ASCII converter tool. Simply search for it online.