$$12345678_{16} = 1 \times 16^7 + 2 \times 16^6 + 3 \times 16^5 + 4 \times 16^4 + 5 \times 16^3$$
$$+ 6 \times 16^2 + 7 \times 16^1 + 8 \times 16^0 = \boxed{305419896_{10}}$$

$$1000000_{16} = 1 \times 16^6 = \boxed{16\,777\,216_{10}}$$