

Hexadecimal Number System

Wednesday, April 2, 2025 3:32 PM

Decimal - Base 10 { 0 to 9 }
Octal - Base 8 { 0 to 7 }
Hexadecimal - Base 16 { 0 to 9, a, b, c, d, e, f }
Binary - Base 2 { 0 and 1 }

eg \rightarrow 843

\rightarrow in JS \rightarrow 0x843

$$\begin{aligned} & 3 \times 16^0 = 3 \\ & 4 \times 16^1 = 64 \\ & 8 \times 16^2 = 2048 \end{aligned}$$

Decimal \rightarrow 2115

845a

$$\begin{aligned} & a \times 16^0 = 10 \times 1 = 10 \\ & 5 \times 16^1 = 5 \times 16 = 80 \\ & 4 \times 16^2 = 4 \times 256 = 1024 \\ & 8 \times 16^3 = 8 \times 4096 = 32768 \end{aligned}$$

33882 \rightarrow in Decimal