

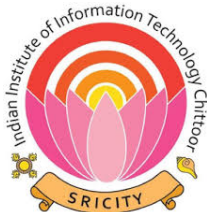
CO: Computer Organization

Tutorial-3

Indian Institute of Information Technology, Sri City

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Tutorial -3

- ① How many CSA Levels are needed to reduce 64 summands to 2.
- ② Write recurrence relation for Wallace Tree multiplication and solve it.
- ③ X and Y are represented using the IEEE 754, single-precision format.
 $X = 1 \ 11110000 \ 11110000111100001111000$
 $Y = 0 \ 10001111 \ 00001111000011110000111$
Perform the following arithmetic operations and represent the result using the IEEE 754 format.
 - (a) $Z = X + Y$
 - (b) $Z = X - Y$
 - (c) $Z = Y - X$