- 9.1 If B=2, fraction is of 3 bits and exponent is of 6 bits,
 then what will be the non-negative lowest and highest
 number that can be generated using the Nonmalized form
 of floating point repræsentation? N.B: Exponent range
 stants from -1.
- Goln: exponent is of 6 bits, so for exponent 26 = 64 possible values exists.

 non-negative lowest = 0.1000 x 21

highest = 0.1111×2^{62}

921 Derive the formula for Gy for the Normalized form of floating point representation.

5017: Same as lecture note.

Q31 For a system in $\beta=2$, m=4 and $e\in\{-3,3\}$ then how many non-negative numbers can be represented in a system following a Nonmolisted form?

Soln: Normalized form: 0.10/dzdzdy x 2 Protal non-negative numbers: 24x7 = 112.

(99) Il (noy) = 2 where n = 3/8, y = 5/8, m= (1, e \ \(\frac{2}{3},3\) and system follows Normalized form. Also find the rounding error.

$$50^{\circ}$$
: $9 \times 9 = \frac{15}{69} = 0.001111 = 0.1111 \times 2^{-2}$

Go no need to trond.

-',
$$fl(nxy) = 0.1111x2^{-2} = 15/64$$

ermon = 0.