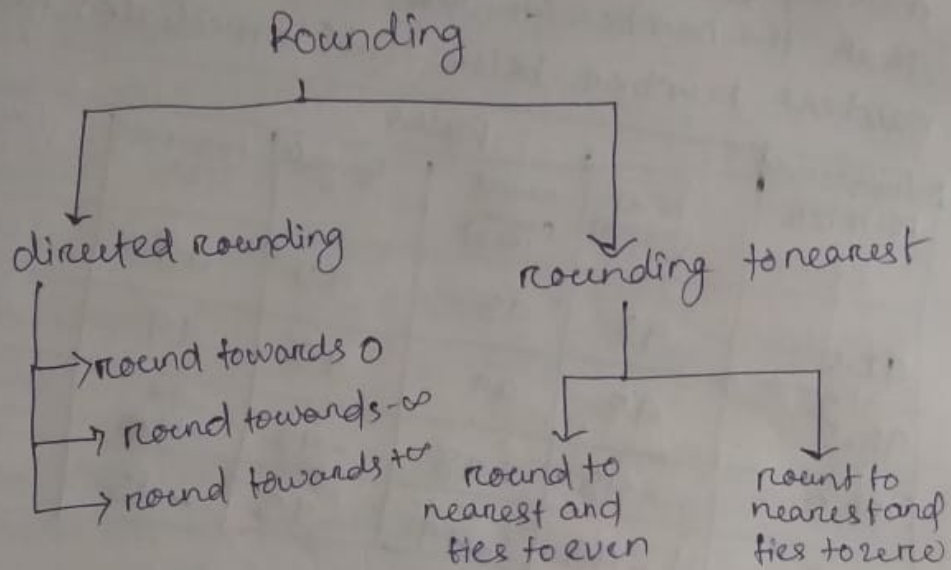


⇒ There are basically five rounding rules.
And they are categorized into two subsets.



a) Directed rounding (truncation)

i) Round towards 0

Directed rounding towards zero

ii) Round towards $+\infty$ (ceiling)

Directed rounding towards $+\infty$

iii) Round towards $-\infty$ (floor)

Directed rounding towards $-\infty$

b) Rounding to nearest

i) Round to nearest, ties to even

rounds to nearest value if the value falls in middle, it is rounded to the nearest number i.e it must have an even least significant digit.

ii) Round to nearest, ties away from zero [page - 7]

Round to the nearest value, if the number falls midway then for positive number number greater than the number (^{nearest} integer) taken and for negative numbers number below that (immediate) taken.

Value to be rounded Number	Rules				
	nearest (to even)	nearest (away from 0)	towards 0	towards ∞	towards -∞
97.5	98	98	97	98	97
98.5	98	99	98	99	98
-97.5	-98	-98	-97	-97	-98
-98.5	-98	-99	-98	-98	-99