[03,1]

Floating point addition using arithmetic pipeline: The following sub operations are performed:

- 1. Compare the exponents.
- 2. Allign the mantissas.
- 3. Add mantissas.
- 4. Normalise the result.

Example: X = 0.1214 + 1010 Y = 0.5000 \* 108

First of all two exponents are compared and the larger of two exponents is charen as the result exponent. In this case it is 10. And the value with smaller exponent should be shifted 10-8=2 times to the right to give. Y=0.0050×1010

Finally two numbers are added to produce Z = 0.1264 \* 1010

As the result is already normalized the result remains the same.

1 of the result was like 1.1264 \* 1010 then we should normalize it to 0.11264 \* 1011