## Algorithm

- 1. Define the function f(x).
- 2. Then define the differentiation of this function f(x) as df(x).
- 3. Input some initial value of x.
- 4. If f(x) is equal to zero, then the corresponding value of x is one of the root of the equation f(x) = 0.
- 5. Else, introduce one more variable x1, such that x1 = x f(x)/df(x), while f(x1) is greater than 10^-5, and the new value of x = x1.
- 6. Final value of x is a value very close the root of the equation f(x) = 0.

## Flowchart

