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stateDiagram-v2
    [*] --> Waiting
    Waiting --> Waiting : clear() / sign="", value="0", display(sign + value)
    Waiting --> HasValue : digit(d) [d != 0] / value = Integer.toString(d), display(sign + value)
    Waiting --> PointAndNoNumber : point()
    HasValue --> HasValue : digit(d) / value = value + Integer.toString(d), display(sign + value)
    HasValue --> AddDigit : digit(d) [d != 0] / value = value + "." + Integer.toString(d), display(sign + value)
    AddDigit --> AddDigit : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    AddDigit --> NumberEntered : point()
    NumberEntered --> NumberEntered : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    NumberEntered --> NumberEnteredAfterPoint : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    NumberEnteredAfterPoint --> NumberEnteredAfterPoint : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    NumberEnteredAfterPoint --> PointEntered : digit(d) / value = value + "." + Integer.toString(d), display(sign + value)
    PointEntered --> PointEntered : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    PointEntered --> NumberEnteredAfterPoint : digit(d) / value = value + "." + Integer.toString(d), display(sign + value)
    PointAndNoNumber --> PointAndZero : digit(d) [d == 0] / value = value + ".0", display(sign + value)
    PointAndZero --> PointAndZero : digit(d) [d == 0] / value = value + ".0", display(sign + value)
    PointAndZero --> NumberEnteredAfterPoint : digit(d) [d != 0] / value = value + Integer.toString(d), display(sign + value)
    PointAndZero --> PointAndZero : digit(d) [d == 0] / value = value + "0", display(sign + value)
    HasValue --> H_star : sign() [sign.equals("-")] / sign="", display(sign + value)
    HasValue --> H_star : sign() [sign.equals("")]/ sign="-.", display(sign + value)
    H_star --> H_star : H*
    
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