Algorithm: Simpson's 1/3rd Rule

- Read function f, lower limit a, upper limit b, number of sub-intervals n
- Set h = $\frac{b-a}{n}$
- sum = $f(a) + f(b)$
- For i = 1 to (n-1) in steps of 1 do
  - $If\ (i\%2 == 0) then$
    - $sum\ +=\ 2 * f(a + i * h)$

    $Else$
    - $sum\ +=\ 4 * f(a + i * h)$

    $End\ if$

  End for
- Integral = $\frac{sum*h}{3}$
- Print integral

  END

Vinayak Singoriya
IT-2k19-72