Divyansh

Newton's Backward difference interpolation

Algorithm

1. Start
2. Declare x[20], y[20], f, s, d, h, p as float data type and i, j, k, n as integer
3. Read the record n and read elements of x and y using for loop
4. Calculate h = x[2] - x[1]
5. Read the point which is going to be searched
6. Calculate s = (f - x[n])/h, d = y[n], p = 1
7. Using for loop Calculate f and d
   (a) y[i] = y[j] - y[j-1]
   (b) p = p * (s * k - 1) k
   (c) d = d + p * y[n]
8. print f and d
9. Stop.