**Trapezoidal Method Algorithm**

1. Start

2. Define function f(x)

3. Read lower limit of integration, upper limit of

integration and number of sub interval

4. Calcultae: step size = (upper limit - lower limit)/number of sub interval

5. Set: integration value = f(lower limit) + f(upper limit)

6. Set: i = 1

7. If i > number of sub interval then goto

8. Calculate: k = lower limit + i \* h

9. Calculate: Integration value = Integration Value + 2\* f(k)

10. Increment i by 1 i.e. i = i+1 and go to step 7

11. Calculate: Integration value = Integration value \* step size/2

12. Display Integration value as required answer

13. Stop