7.1 Write a C Program to find out the value of f(2.35) using Newton's Forward Interpolation Formula from the following table.

x:	2.00	2.25	2.50	2.75	3.00
f(x):	9.00	10.06	11.25	12.56	14.00

7.2 *Write a C Program to find out the value of f(4.25) using Newton's Backward Interpolation Formula from the following table.*

x:	2.5	3.0	3.5	4.0	4.5
f(x):	9.75	12.75	15.70	19.52	23.75

SOLUTION :

Write a C Program to find out the value of f(4.25) using Newton's Divide Difference Interpolation Formula from the following table.

x:	2.5	3.0	4.5	4.75	6.0
f(x):	8.85	11.45	20.66	22.85	38.60

7 **Write a C Program to evaluate** $\int_2^1 1/(1+x^2)\,dx$ **using Trapezoidal rule with 6 intervals.**

Write a C Program to evaluate $\int_2^1 x/(1+x)\,dx$ using Simpson's 1/3rd Rule with 6 intervals.

Write a C program to find the root of the equation $x^3 + x^2 + x + 7 = 0$ using Bisection Method.

3 Write a C program to find the root of the equation $x^3 - x - 3 = 0$ using Newton Raphson Method.