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4C7

Aim

To solve ordinary differential equations using Euler’s method.

Experiment - 7

APPLIED MATHEMATICS LAB

# **EXPERIMENT – 7**

## **Aim:**

To solve ordinary differential equations using Euler’s method.

**Source Code:**

clc; clear; close;

printf('\n\n Name - Syeda Reeha Quasar \n Enrolment No. - 14114802719 \n Group - C7 \n\n')

deff ('z = f(x,y)','z = (y-x)/(y+x)')

x0 = 0;

y0 = 1;

xn = 0.1;

h = 0.02;

x = x0;

y = y0;

while x ~= xn

y = y + h \* f(x,y);

x=x+h;

printf("\n When x = %g, y = %g\n" ,x ,y)

end

# **Output:**

