h = input("Enter Value of h :");

x0 = input("Enter Value of xo :");

y0 = input("Enter Value of yo :");

f = @(x,y) (y/x) + (1/(x\*x));

X = input("Enter Value of X :");

n = (X - x0)/ h;

x = x0:h:X;

y = y0;

for i = 1:n

y(i+1) = (y(i) + (h \* f(x(i),y(i))));

end

disp(x)

disp(y)

%% Rk Method

h = input("Enter Value of h :");

x0 = input("Enter Value of xo :");

y0 = input("Enter Value of yo :");

f = @(x,y) (y/x) + (1/(x\*x));

X = input("Enter Value of X :");

n = (X - x0)/ h;

x = x0:h:X;

y = y0;

for i = 1:n

k1 = h \* f(x(i), y(i));

k2 = h \* f(x(i) + h / 2, y(i) + k1 / 2);

k3 = h \* f(x(i) + h / 2, y(i) + k2 / 2);

k4 = h \* f(x(i) + h, y(i) + k3);

y(i+1) = y(i) + (k1 + 2 \* k2 + 2 \* k3 + k4) / 6;

end

disp(x)

disp(y)