```c
// C-Program for solving a Differential equation using Runge-kutta 2nd order method.

int main(){
    //Variables
    int n, i; float x0, y0, x1, y1, l, h, k1, k2;

    //Inputs
    printf("Enter the number of iteration (n) : ");
    scanf("%d", &n);
    printf("Enter the initial point (x0) : ");
    scanf("%f", &x0);
    printf("Enter the last point (l) : ");
    scanf("%f", &l);
    printf("Enter the initial condition (y0) : ");
    scanf("%f", &y0);

    //Calculation of no. of sub intervals.
    h = (l-x0)/n;

    //Calculation using for loop.
    for(i=1; i<=n; i++){
        x1 = x0+h;
        k1 = -h*y0;
        k2 = -h*(y0+k1);
        y1 = y0+0.5*(k1+k2);
        //Output
        printf("x[%d] and y[%d] : %.6f %.6f\n",i,i,x1,y1);
        x0 = x1;
        y0 = y1;
    }
}
```