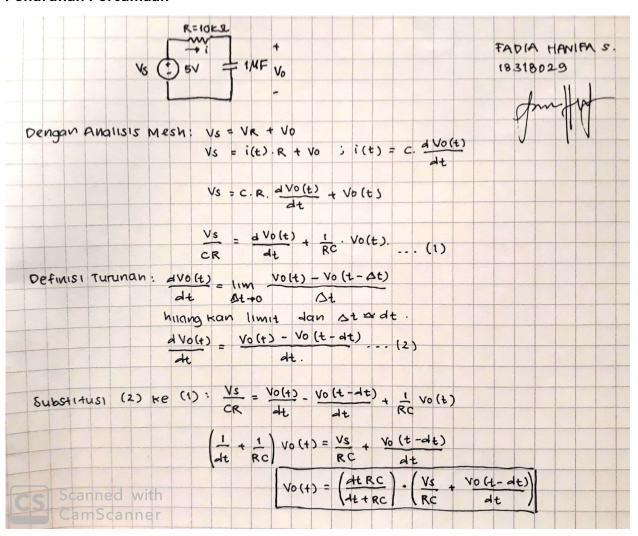
# **LAPORAN QUIZ 4**

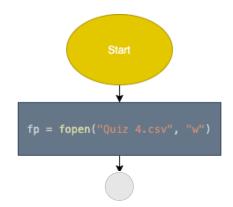
# EL 2008 PENYELESAIAN MASALAH DENGAN C

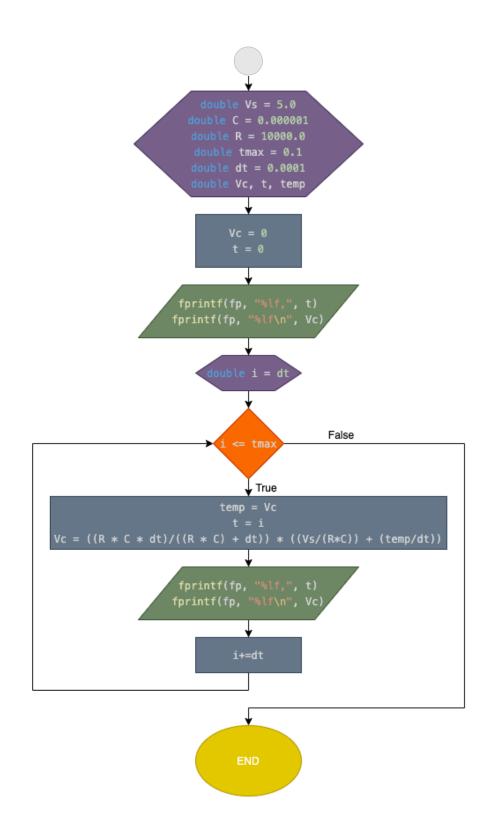
Fadia Hanifa Suwandoko / 18318029

# 1. Penurunan Persamaan



### 2. Flowchart





# 3. Kode

```
#include <stdio.h>
int main() {
    FILE *fp;
    fp = fopen("Quiz 4.csv", "w");
                                                         // open or create csv
file
    // inisiasi variabel
    double Vs = 5.0;
    double C = 0.000001;
    double R = 10000.0;
    double tmax = 0.1;
    double dt = 0.0001;
    double Vc, t, temp;
    Vc = 0;
    t = 0;
    fprintf(fp, "%lf,", t);
                                               // input data ke file external
    fprintf(fp, "%lf\n", Vc);
    for(double i = dt; i < = tmax; i += dt) {//looping dari t=dt sampai t=tmax</pre>
        temp = Vc;
                                                            // menyimpan data t
        t = i;
        Vc=((R*C*dt)/((R*C)+dt))*((Vs/(R*C))+(temp/dt));
        fprintf(fp, "%lf,", t);
                                                          // input data ke file
        fprintf(fp, "%lf\n", Vc);
    fclose(fp);
    return(0);
```

# 4. Grafik Hasil

