Measure 0 to 100 vdc using Microcontroller. (S.V.SURIYA)

```
                        ( Start )
                           |
                           v
        +--------------------------------------+
        |  Declaring variables adc_value,      |
        |     PP_vout , volt ;                 |
        +--------------------------------------+
                           |
                           v
        /------------------------------------/
       /  init_config ()                    /
      /   init_ssd_control();              /
     /            success                 /
        +------------------------------------+
                           |
                           v
        +--------------------------------------+
        |  Loop (while(1))                     |
        |                                      |
        |  display (volt)                      |
        |                                      |
        |  volt = (adc_value * 50) /1023.0;    |
        |                                      |
        |  P_pvolt = volt * ((100.0 + 3.3/3.3);|
        +--------------------------------------+
                           |
                           v
        +--------------------------------------+
        |  delay for 500 cycles                |
        |   ( for(i=500; i--; ) )              |
        +--------------------------------------+
                           |
                           v
                      (  END  )
```
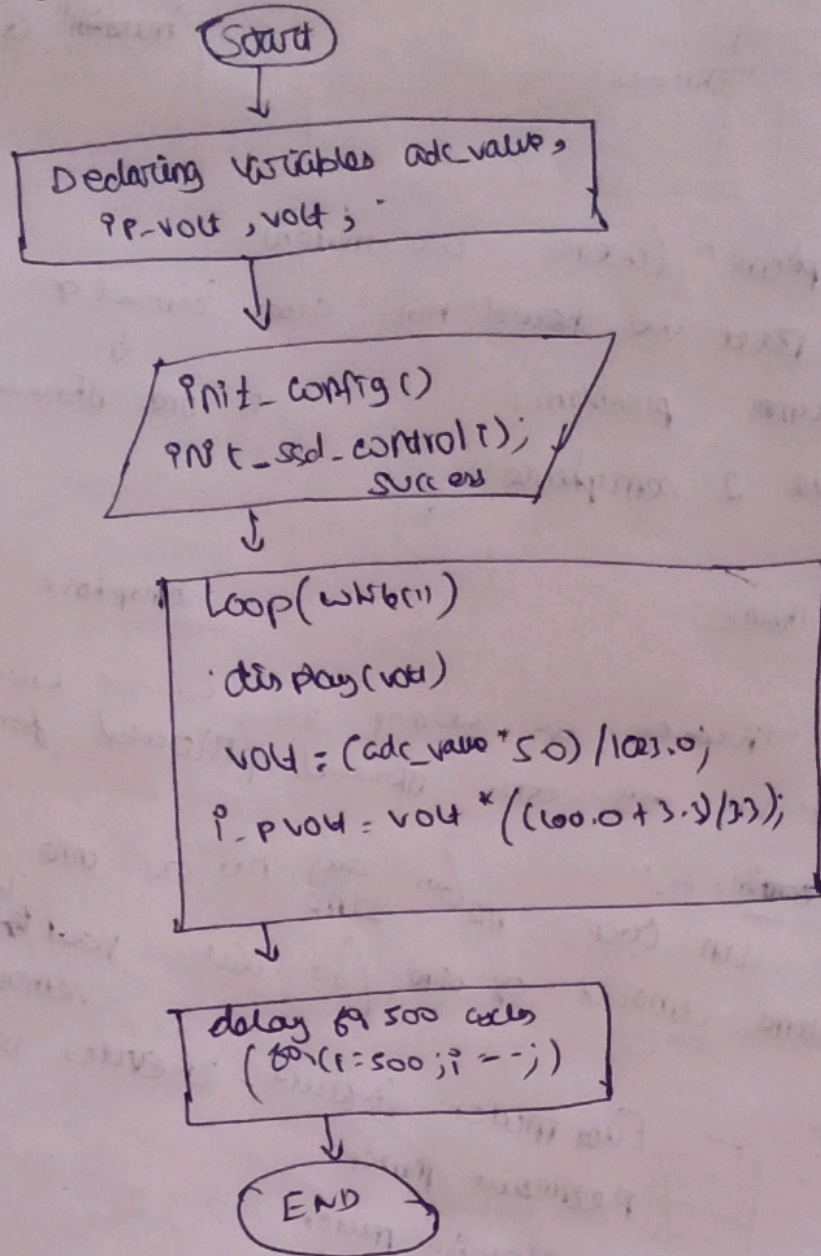
Step 1: Selecting PIC18F4580 microcontroller

Step 2: Select XC8 compiler

Step 3: Create New file (source, header)

Step 4: Including required header files

Step 5: Initializing the variables

Step 6: calling init_config() in main

Step 7: ssd_control() inside init_config(), If we config
the ssd ports

Step 8: Running an infinite while loop

Step 9: calling display function

Step 10: performing operations

Step 11: Adding delay.