C Program to count number of vowels and consonants

Algorithm

step 1: Start

step 2: Input i=0, vowels=0, consonants=0

step 3: Input string

Step 4:   while (str[i] != '\0')
{
        if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i'
            str[i] == 'o' || str[i] == 'u' || str[i] == 'A'
            || str[i] == 'E' || str[i] == 'I' || str[i] == 'O' ||
            str[i] == 'U')
            {
                vowels++
            }
            else
            {
                Consonants++
            }
            i++
}

step 5: Repeat step 4 until condition becomes false
step 6: Print number of vowels and number of Consonants
step 7: return 0
step 8: Stop

Flowchart

```
                    ( Start )
                        |
          | i=0, Vowels=0, Consonants=0 |
                        |
              / Input string /
                        |
  False            < While
 <---------         (str[i] != '\0') >
          |                |
          |            | True
          |                v
          |   | if (str[i]=='a' || str[i]=='e' || str[i]=='i' || str[i]=='o' || str[i]==U
          |     || str[i]=='A' || str[i]=='E' || str[i]=='I' || str[i]=='O' || str[i]=='U') |
          |                |                              |
          |            | True                         | False
          |                v                              v
          |        | Vowels++ |                   | Consonants++ |
          |                |                              |
          |                +-------------+----------------+
          |                              |
          |                          | i++ |
          |                              |
          +------------------------------+
                        |
                        v
          | Print number of vowels |
                        |
          | Print number of consonants |
                        |
              / Return 0 /
                        |
                    ( Stop )
```