Compile Result

```
Enter a line of string: chandan vs
Vowels: 2
Consonants: 7
Digits: 0
White spaces: 1
[Process completed - press Enter]
```

Algorithm

Step 1: Start

Step 2: Declare and initialize

int vowels = 0, consonants = 0, digits = 0, space = 0;

char line [50]

Step 3: Enter line of the strings.

fgets (line, sizeof (line), stdin)

Step 4: Condition or Logic: for (int i = 0; line [i] != ' \0'; i++)

4.1 if (line [i] == 'a' || line[i] == 'B' || line [i] == 'i' || line[i] == 'O' ||

line [i] == 'u' || line [i] == 'A' || line [i] == 'E' || line[i] == 'I' ||

line [i] == 'O' || line [i] == 'U')

++ vowels;

Step 5: Else if ((line [i] >= 'a' && line [i] <= 'z) || line [i] >= 'A' && line[i] <= 'Z,

++ consonant

5.1 Else if ((line [i] >= '0' && line [i] <= '9')

++ digit

5.2 Else if (line [i] == ' ')

++ space

Step 6: Print Output

Step 7: Stop.

Flowchart

```
Start

Declare char line[100];
int vowels = 0, consonants = 0, digits = 0, space = 0;

Read line of string
/gets(line, sizeof(line), stdin)

for(int i = 0; line[i] != '\0'; i++)

If(line[i] == 'a' || line[i] == 'e' || line[i] == 'i' || line[i] == 'o' ||
   line[i] == 'u' || line[i] == 'A' || line[i] == 'E' || line[i] == 'I' ||
   line[i] == 'O' || line[i] == 'U')

        ++ vowels                    T

Else If((line[i] >= 'a' && line[i] <= 'z' || line[i] >= 'A' && line[i] <= 'Z'

        ++ consonants       T

Else If (line[i] >= '0' && line[i] <= '9')

        ++ digit           T

Else If (line[i] == ' ')

        ++ space     T

Print Result

Stop
```