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Input

```
Chinmaya
```

Output

```
Enter sentence
Chinmaya
total number of vowels= 3
total number of a's= 2
total number of e's= 0
total number of i's= 1
total number of o's= 0
```

Input

```
Chinmaya
```

Output

```
total number of vowels= 3
total number of a's= 2
total number of e's= 0
total number of i's= 1
total number of o's= 0
total number of u's= 0
total number of consonants= 5
```

Count of Vowels and Consonants

Program

```
#include <stdio.h>
#include <string.h>
int main()
{
    int i, vcount=0, ccount=0, acount=0, ecount=0, icount
                                                    =0
                                    ocount=0, ucount=0;

    char ch, str1[50];
    printf("Enter a sentence\n");
    gets(str1);
    for(i=0; str1[i]!=0; i++)
    {
        if(isalpha(str1[i]))
        {
            ch=str1[i]
            if(ch=='a'||ch=='A')
                acount++;
            else if(ch=='e'||ch=='E')
                ecount++;
            else if(ch=='i'||ch=='I')
                icount++;
            else if(ch=='o'||ch=='O')
                acount++;
            else if(ch=='u'||ch=='U')
                ucount++;
            else
                ccount++;
        }
}
```

```
vcount = acount + ecount + icount + ocount + ucount;
printf("total number of vowels = %d\n", vcount);
printf("total number of a's = %d\n", acount);
printf("total number of e's = %d\n", ecount);
printf("total number of i's = %d\n", icount);
printf("total number of o's = %d\n", ocount);
printf("total number of u's = %d\n", ucount);
printf("total number of consonants = %d\n", ccount);
return(0);
}
```

Algorithm

step1 - start

step2 - Input str1

step3 - for(i=0; str1[i]!='\0'; i++)

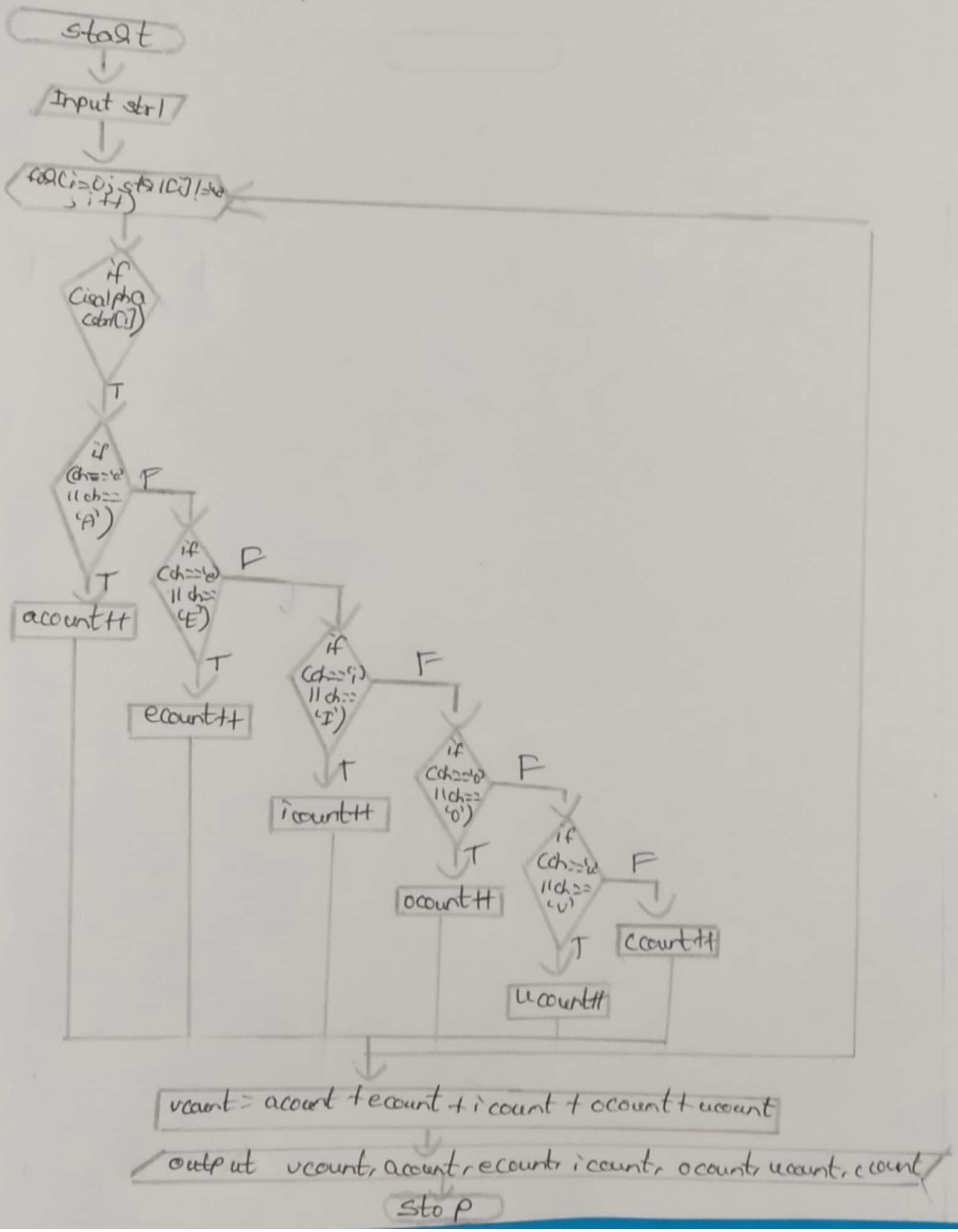
```
if(isalpha(str1[i]))
    ch = str1[i]
    if(ch=='a' || ch=='A')
        acount = acount+1
    else if(ch=='e' || ch=='E')
        ecount = ecount+1
    else if(ch=='i' || ch=='I')
        icount = icount+1
    else if(ch=='o' || ch=='O')
        ocount = ocount+1
    else if(ch=='u' || ch=='U')
        ucount = ucount+1
    else
        ccount = ccount+1
```

Step4 - vcount = acount + ecount + icount + ocount + ucount

Step5 - output vcount, acount, ecount, icount, ocount, ucount, ccount

Step6 - Stop

Flowchart



Output -

Enter sentence

Chinmaya

total number of vowels = 3

total number of a's = 2

total number of e's = 0

total number of i's = 1

total number of o's = 0

total number of u's = 0

total number of consonants = 5