

```
#include<stdio.h>
```

```
char str[1000];
```

```
int main()
```

```
{
```

```
    printf("ENTER THE STRING :");
```

```
    gets(str);
```

```
    int i=0, spaces=0, tab=0, line=0, vowels=0, words=0;
```

```
    while(str[i]!='\0')
```

```
    {
```

```
        if(str[i]==' ')
```

```
            spaces++;
```

```
        else if(str[i]=='\t')
```

```
            tab++;
```

```
        else if(str[i]=='\n')
```

```
            line++;
```

```
        else 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++;
```

```
            if((i-1>=0)&&(str[i]==' ' || str[i]=='\t')&&(str[i-1]!=' ' && str[i-1]!='\t'))
```

```
                words++;
```

```
            i++;
```

```
    }
```

```
    printf("\nWords: %d", words+1);
```

```
    printf("\nSpaces: %d", spaces);
```

```
    printf("\nTabs: %d", tab);
```

```
    printf("\nVowels: %d", vowels);
```

```
    printf("\nFinal String : ");
```

```
    i=0;
```

```
    while(str[i]!='\0')
```

```
    {
```

```
        if(str[i]==' ' || str[i]=='\t')
```

```
        {
```

```
            while(str[i]!='\0'&&(str[i]==' ' || str[i]=='\t'))
```

```
                i++;
```

```
            printf(" ");
```

```
        }
```

```
        printf("%c", str[i]);
```

```
        i++;
```

```
    }
```

```
    return 0;
```

```
}
```