

```

str = "Good Bye".replaceAll(" ","")
console.log(str)
emp = []
l=str.toLowerCase().split("").sort()
for(i of l)
{
    if(!emp.includes(i))
    {
        emp.push(i)
    }
}
console.log(emp)
console.log("upper case first : ")
for( i of emp)
{
    c=0
    for(j of l)
    {
        if(i == j)
            c++
    }
    if(str.includes(i.toUpperCase()))
    {
        console.log(i.toUpperCase(),c)
    }
}
console.log("lower case second")
for( i of emp)
{
    c=0
    for(j of l)
    {
        if(i == j)
            c++
    }
    if(str.includes(i.toLowerCase()))
    {
        console.log(i.toLowerCase(),c)
    }
}

str = "Good Bye".replaceAll(" ","")
console.log(str)
emp = []
l=str.toLowerCase().split("").sort()
for(i of l)
{
    if(!emp.includes(i))
    {
        emp.push(i)
    }
}
console.log(emp)

```

```

console.log("Lower case first : ")
for( i of emp)
{
    c=0
    for(j of l)
    {
        if(i == j)
            c++
    }
    if(str.includes(i.toLowerCase()))
    {
        console.log(i.toLowerCase(),c)
    }
}
console.log("upper case second")
for( i of emp)
{
    c=0
    for(j of l)
    {
        if(i == j)
            c++
    }
    if(str.includes(i.toUpperCase()))
    {
        console.log(i.toUpperCase(),c)
    }
}

```

```

n = "programming"
vowels = "aeiouAEIOU",res = "",rev = "",ind = 0
for(i of n)
{
    if(vowels.includes(i))
    {
        rev = i + rev
    }
}
console.log(rev);
for(i in n)
{
    if(vowels.includes(n[i]))
    {
        res += rev[ind]
        ind++;
    }else
    {
        res += n[i]
    }
}
console.log(res)

```

o/p:

GoodBye

['b', 'd', 'e', 'g', 'o', 'y']

upper case first :

B 1

G 1

lower case second

d 1

e 1

o 2

y 1

GoodBye

['b', 'd', 'e', 'g', 'o', 'y']

Lower case first :

d 1

e 1

o 2

y 1

upper case second

B 1

G 1

iao

vowels are printed in reverse in the given string : prigrammong