

task:-1) input: Enter a string: Good Bye  
output:

B - 1

G - 1

d - 1

e - 1

o - 2

y - 1

code:

```
str = "Good Bye".replaceAll(" ", "")
```

```
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)
```

```
    }
```

```
}
```

-----  
-----

2) input: Enter a string: Good Bye

output:

d - 1

e - 1

o - 2

```
y - 1
B - 1
G - 1
```

```
code:-
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)
    }
}
}
```

-----  
-----

```
3) input: Enter a string: programming (oai - iao )
output:
programming
input: Helloworld
Hollowerld
code:-
str = "programming"
```

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

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