Q1) Print the postive index of each letter

```
In [71]: str1="hellow how are you."
         for i in range(len(str1)):
             print(f"the positive index of {str1[i]} is {i}." )
        the positive index of h is 0.
        the positive index of e is 1.
        the positive index of 1 is 2.
        the positive index of 1 is 3.
        the positive index of o is 4.
        the positive index of w is 5.
        the positive index of is 6.
        the positive index of h is 7.
        the positive index of o is 8.
        the positive index of w is 9.
        the positive index of is 10.
        the positive index of a is 11.
        the positive index of r is 12.
        the positive index of e is 13.
        the positive index of is 14.
        the positive index of y is 15.
        the positive index of o is 16.
        the positive index of u is 17.
        the positive index of . is 18.
```

Q2) Print the negative index of each letter

```
In [80]: str1="hellow how are you."
         for i in range(len(str1)):
             print(f"the negative index of {str1[i]} is {i-len(str1)}")
        the negative index of h is -19
        the negative index of e is -18
        the negative index of l is -17
        the negative index of l is -16
        the negative index of o is -15
        the negative index of w is -14
        the negative index of is -13
        the negative index of h is -12
        the negative index of o is -11
        the negative index of w is -10
        the negative index of is -9
        the negative index of a is -8
        the negative index of r is -7
        the negative index of e is -6
        the negative index of is -5
        the negative index of y is -4
        the negative index of o is -3
        the negative index of u is -2
        the negative index of . is -1
```

Q3) Print the postive and negative index of each letter

```
In [81]: str1="hellow how are you."
         for i in range(len(str1)):
             print(f"the positive index of {str1[i]} is {i}. and the negative index of {str1
        the positive index of h is 0. and the negative index of h is -19
        the positive index of e is 1. and the negative index of e is -18
        the positive index of l is 2. and the negative index of l is -17
        the positive index of l is 3. and the negative index of l is -16
        the positive index of o is 4. and the negative index of o is -15
        the positive index of w is 5. and the negative index of w is -14
        the positive index of is 6. and the negative index of
        the positive index of h is 7. and the negative index of h is -12
        the positive index of o is 8. and the negative index of o is -11
        the positive index of w is 9. and the negative index of w is -10
        the positive index of is 10. and the negative index of is -9
        the positive index of a is 11. and the negative index of a is -8
        the positive index of r is 12. and the negative index of r is -7
        the positive index of e is 13. and the negative index of e is -6
        the positive index of is 14. and the negative index of is -5
        the positive index of y is 15. and the negative index of y is -4
        the positive index of o is 16. and the negative index of o is -3
        the positive index of u is 17. and the negative index of u is -2
        the positive index of . is 18. and the negative index of . is -1
```

Q4) Wap ask to print the index of all 'a' in a given string.

```
In [84]: str2="hello anand, how are you."
    for i in range(len(str2)):
        if str2[i]=='a':
            print(f"the index of {str2[i]} is {i}.")

    the index of a is 6.
    the index of a is 8.
    the index of a is 17.
```

Q5) Wap ask to print the number of 'a's in a given string

Q6) Wap ask to print the sum of the index of all 'a' in a given string

```
In [87]:
    summ=0
    str2="hello anand, how are you?"
    for i in str2:
        if i=='a':
            print(i)
            summ=summ+1
```

the total number of 3.

```
print(f"the sum of a in string is {summ}")
a
a
a
the sum of a in string is 3
```

Q7) Wap to find the vowels in a given string

```
In [91]: str2="hello anand, how are you?"
    for i in range(len(str2)):
        if str2[i] in "aeiou":
            print(str2[i],end=' ')

e o a a o a e o u
```

Q8) wap to find the number of vowels in a given string

```
In [95]: str2="hello anand, how are you?"
    count=0
    for i in range(len(str2)):
        if str2[i] in "aeiou":
            count=count+1
    print(f"the total number of vowels is {count}.")
```

the total number of vowels is 9.

Q9) wap to find the indexes of vowels in a given string

```
In [94]: str2="hello anand, how are you?"
    for i in range(len(str2)):
        if str2[i] in "aeiou":
            print(f" the index of vowel {str2[i]} is {i}.")

        the index of vowel e is 1.
        the index of vowel o is 4.
        the index of vowel a is 6.
        the index of vowel a is 8.
        the index of vowel o is 14.
        the index of vowel a is 17.
        the index of vowel e is 19.
        the index of vowel o is 22.
        the index of vowel u is 23.
```

Q10) wap to find the sum of the indexes of vowels in a given string

```
In [96]: str2="hello anand, how are you?"
summ=0
for i in range(len(str2)):
    if str2[i] in "aeiou":
        #print(i,str2[i])
        summ=summ+1
print(f" the sum of vowel is {summ}.")
```

the sum of vowel is 9.

Q11) wap to find the unique vowels in a given string