In [ ]:
```python
#Q1) WAP ask the user count how many 'a' are present in a given string
# str1='hai naresh how are you'

# Idea: counter wrapper
# step-1: count=0
# step-2: using for loop in operator iterate through  given string
# step-3: apply the if condition, whenever the letter equal to 'a'
# step-4: count=count+1
```

In [1]:
```python
str1='hai naresh how are you'
count=0
for i in str1:
    if 'a'==i:
        count=count+1
print(count)
```

```
3
```

In [ ]:
```python
# Q2) WAP ask the find how many vowels are there in a given string
# str1='hai naresh how are you'
# ans=9
```

In [6]:
```python
str1='hai naresh how are you'
count=0
for i in str1:
    if i in 'aeiou':
        count=count+1
print(count)
```

```
9
```

In [ ]:
```python
# Q3) Home work qn
# str1='hai naresh how are you'
# Repetaed vowels are there
# We dont want repetaed vowels
# Count the vowels avoid the repeatition: Unique vowels
```

In [15]:
```python
str1='hai naresh how are you'
str2=' '
count=0
for i in str1:
    if i not in str2:
        if i in 'aeiou':
            str2=str2+i
            count=count+1
print(str2)
print(count)
```

```
 aieou
5
```

In [ ]:
```python
# Q4) print each letter using for loop range
```

In [19]:
```python
str1='shruthi is coming from suchithra'
for i in str1:
    print(i)
```

```
s
h
r
u
t
h
i

i
s

c
o
m
i
n
g

f
r
o
m

s
u
c
h
i
t
h
r
a
```

In [ ]:
```python
# Q5) wap ask the user iterate using a string
# string='welcome'
# print the postive index of w is 0
#        the positive index of e is 1
#        the positive index of l is 1
```

In [31]:
```python
string='welcome'
for i in range(len(string)):
    print(f"the positive index of {string[i]} is {i}")
```

```
the positive index of w is 0
the positive index of e is 1
the positive index of l is 2
the positive index of c is 3
the positive index of o is 4
the positive index of m is 5
the positive index of e is 6
```

In [ ]:
```python
# Q6) wap ask the user iterate using a string
# string='welcome'
# print the negative index of w is -7
#        the negative index of e is -6
#        the negative index of l is -5
# the positive index is 0 and the negtaive index -7 for w
```

In [33]:
```python
string='welcome'
for i in range(len(string)):
    print(f"the positive index of {string[i]} is {i-len(string)}")
```

```
the positive index of w is -7
the positive index of e is -6
the positive index of l is -5
the positive index of c is -4
the positive index of o is -3
the positive index of m is -2
the positive index of e is -1
```

In [ ]:
```python
# Q7) wap ask the user iterate using a string
# string='welcome'
# # the positive index is 0 and the negtaive index -7 for w
```

In [41]:
```python
string='welcome'
for i in range(len(string)):
    print(f"the positive index of {string[i]} is {i}")
    print(f"the negative index of {string[i]} is {i-len(string)}")
```

```
the positive index of w is 0
the negative index of w is -7
the positive index of e is 1
the negative index of e is -6
the positive index of l is 2
the negative index of l is -5
the positive index of c is 3
the negative index of c is -4
the positive index of o is 4
the negative index of o is -3
the positive index of m is 5
the negative index of m is -2
the positive index of e is 6
the negative index of e is -1
```

In [ ]:
```python
#Q8) wap ask the user get the index of each 'a' in a given string
# s='hai how are you i am good'
# a=1  8  18
```

In [49]:
```python
s='hai how are you i am good'
for i in range(len(s)):
    if s[i]=='a':
        print(i)
```

```
1
8
18
```

In [ ]:
```python
#Q9) wap ask the user to get count of number of 'a' in a given string
#      using for-range
```

In [60]:
```python
s='hai how are you iam good'
count=0
for i in range(len(s)):
    if s[i]=='a':
        count=count+1
print(count)
```

3

In [ ]:
```python
#Q10) wap ask the user get the sum of all index numbers of 'a'
# 1+8+18= 27
```

In [66]:
```python
s='hai how are you i am good'
sum=0
for i in range(len(s)):
    if s[i]=='a':
        print(i)
        sum=sum+i
print(f"sum of all index numbers:{sum}")
```

1
8
18
sum of all index numbers:27

In [ ]:
```python
#Q11) wap ask the user get the vowels from a given string using for-range
```

In [69]:
```python
s='hai how are you iam good'
for i in range(len(s)):
    if s[i] in 'aeiou':
        print(s[i])
```

a
i
o
a
e
o
u
i
a
o
o

In [ ]:
```python
#Q13)updated wap ask the user get the vowels from a given string using for-range (fir
```

In [75]:
```python
s='hai how are you iam good'
str2=' '
count=0
for i in range(len(s)):
    if s[i] not in str2:
        if s[i] in 'aeiou':
```

```
                str2=str2+s[i]
                count=count+1
print(str2)
print(count)
```

aioeu
5

In [ ]: