In [1]:

```
import re
msg = input()
p = r'[aeiouAEIOU]'
a = re.findall(p,msg)
if re.findall(p,msg):
    print("Yes vowel is present")
else:
    print("No vowels")
print(a)


```

```
hello how are you
Yes vowel is present
['e', 'o', 'o', 'a', 'e', 'o', 'u']
```

In [3]:

```
final_res = set(a)
final_res
```

Out[3]:

```
{'a', 'e', 'o', 'u'}
```

In [11]:

```
#Write a program that validates a mobile phone number
#the number should strat with 7 or 8 or 9 followed by 9 digitd
p = r'[7-9]{1}[0-9]{9}'
msg = "4578961234 7894561231 845786 9854761235"
a = re.findall(p,msg)
print("Valid Number: ",a)
```

```
Valid Number:  ['7894561231', '9854761235']
```

Write a program that uses a re to pluralize a word

In [23]:

```
import re
def plural(noun):
    if re.search(r'[sxzh]$',noun):
        return re.sub("$","es",noun)
    elif re.search(r'[y]$',noun):
        return re.sub("y$","ies",noun)
    if re.search(r'[krnwg]$',noun):
        return re.sub("$","s",noun)
n = input("Enter the word: ")
plural(n)


```

...

In [ ]:

```
p = "^4[0-9]{12}(?:[0-9]{3})?$";

```

a. It will start with 3 or 6 or 8 b. It will have 16 digits c. It will not end with 00

In [37]:

```
p=r'[3|6|8|9]{1}[0-9]{13}[1-9]{2}'
msg = "3578961234789545 6894561231457878 845786 9854761235587810"
a = re.findall(p,msg)
print("Valid Number: ",a)
```

```
Valid Number:  ['6894561231457878']
```

In [49]:

```
p=r'[3|6|8]{1}[0-9]{13}[[0]{1}[1-9]{1}]|[[1-9]{1}[0]{1}]'
msg = "3578961234789545 6894561231457878 845786 9854761235587810"
a = re.findall(p,msg)
print("Valid Number: ",a)
```

```
Valid Number:  []

C:\Users\klmar\AppData\Local\Temp\ipykernel_33728\2438657947.py:3: FutureWar
ning: Possible nested set at position 20
  a = re.findall(p,msg)
C:\Users\klmar\AppData\Local\Temp\ipykernel_33728\2438657947.py:3: FutureWar
ning: Possible nested set at position 37
  a = re.findall(p,msg)
```

In [50]:

```
l1 = [45]
l2 = [42]
l1+l2
```

Out[50]:

```
[45, 42]
```

In [ ]:

```

```