**VOWGRAM**

**Vowgrams are words or sentences that has every vowel of  the English alphabet occurring  at least  once. Write an algorithm and  a subsequent Python code to check whether a string is a vowgram or not. Write a function to check if a given string is a vowgram. For example, “The quick brown fox jumps over the lazy dog” is a vowgram.**

**ALGORITHM:**

Step1: Start  
Step2: declare a=’aeiou’ and t=0  
Step3: define function a in terms of a,p,t                                                                                     Step4: for i in range of 5  
Step5: if a[i] in p then t=t+1  
Step6:if t=5 return Vowgram  
Step7: else return Not vowgram  
Step8: let k=c(a,p,t)  
Step9: print k  
Step10: Stop

**PSUEDO CODE:**

procedure to find whether word is Vowgram or not

Begin

declare a=’aeiou’ and t=0

define function a in terms of a,p,t

for i in range of 5

if a[i] in p then compute t=t+1

if t=5 return Vowgram

else return Not vowgram

let k=c(a,p,t)

print k

End

**CODE:**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13 | p=input().lower().rstrip()  t=0  a='aeiou'  def c(a,p,t):      for i in range(5):          if a[i] in p:              t=t+1      if t==5:          return('Vowgram')      else:          return('Not vowgram')  k=c(a,p,t)  print(k) |

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**Input:**  
the string  
  
**Processing:**  
def vowgram(s):  
    s = s.lower()  
    s = ''.join(s.split())  
    if set(s) > set('aeiou'):  
        print('Vowgram')  
    else:  
        print('Not vowgram')

**Output:**  
display whether string is a vowgram or not

**Program**  
def vowgram(s):  
    s = ''.join(s.split())  
    s = s.lower()  
    if set(s) > set('aeiou'):  
        print('Vowgram')  
    else:  
        print('Not vowgram')  
  
s= input()  
  
vowgram(s)

**Algorithm:**

Step1. define the function vowgram with one parameter s

Step1.1 convert all the letters of s into lower case and remove all the whitespace characters

Step1.2 check if set(s) is a superset of the set of vowels if yes then display the string is a vowgram else display not vowgram

Step2. get the string and check whether it is a vowgram or not using the vowgram function

Step3. End