SONA COLLEGE OF TECHNOLOGY (AUTONOMOUS)

B.E / B. Tech DEGREE SEMESTER END PRACTICAL EXAMINATIONS, DEC 2020 – JAN 2021

REGISTER NUMBER	:	1	5	1	8	1	0	2	1	0	6
SUBJECT CODE	:	U15CS506R									
SUBJECT NAME	:	PYTHON PROGRAMMING LABORATORY									
DATE	:	0	7	/	0	1	/	2	0	2	1
BATCH	:	3									

TYPE OR COPY / PASTE YOUR ALLOTTED QUESTION DOWN HERE IN THE BOX GIVEN BELOW

i. Given a number N and an array of N strings, sort the strings based on the number of vowels in each of
the strings in descending order.
Input Size : N <= 1000
Sample Testcase:

INPUT

3

Vishal

Aaae

Awqr

OUTPUT

Aaae

Vishal

Awqr

ii. Swagger and Rock are playing a word game. They need to check the two strings use the same base alphabets. Two strings are said to have same base alphabets if the use the same characters to form the word. eg: rescue and curse have same base alphabets - c,e,r,s,u. Input Size: S <= 1000000
Sample Testcase : INPUT
rescue curse
nail snail
OUTPUT
true

String sort vowel in descending

Aim: To write a given number N and an away of N string, bort the string based on the number of Vowel in each of the stung in descending order.

Algorithm:

Step 1: start

Step 2: get the number of test case as

Input

Step 3: Run the for loop for the sting to

Store in list

Step 4: Pass to sort function and Court the

Vowels and sort the string in the sorted

order

54ep 6: 5top

```
Program:
               : (L) Leworis
          def
                    ch = ch. upper();
                   return (ch == 'A' or ch == E'or ch == '1' or
                             ch== 'o' or ch== 'u')
         def Court Vowels (String):
                 Court = 0,
                 for i in range (len (string)):
                         if (is vowel (stag[:])):
                                  Court + = 1
                  return Court
         def Sort Arr (au, n):
                 Vp = []:
                  for in range (n)
                        Vp-appered ((Court Vowels (art[9]), art [9]);
                 Vp. boxt ()
                 for i in range (len(vp)-1,-1,-1):

print (vp[i][i]).
         + = int (input())
         aur = []
         for ? in range (+):
                 St = input ()
                 aus. append (st)
          n= len (arr)
         Sort Arr (au, n)
```

Output: Vishal Aaae Away Aaae vishal Away Result:
This, the Program is executed successfully and output is Verified.

Check string has same base Alphabets.

Aim:

To write a program to check two string are having same base alphabets.

Algorithm:

Step 1: 5tept

step 2: get the Enput of two sting using

map and set

Step 3: Print 'the' if 51 and \$2 are equal

Step 4: Print 'false' if 51 and \$2 are not

equal

Step 5: Stop.

Program:

\$1,\$\(\sigma = \text{map}(\set, \text{input(). split()})\)

if (\(\sigma = \sigma \):

\[\text{Print}('\text{the'})\]

else:

Print ('false')

Output: rescue aise true. Thus, the program is executed and the output is verified successfully.