```
"""
WAP to print the following pattern
     1
    121
   12321
"""

space = int(input('Enter Step Size: '))
c = '1'
while space >= 1:
    print(' ' * space, int(c) ** 2)
    c += '1'
    space -= 1

```

```
1  # WAP to count the number of words, vowels and
   spaces
2
3  phrase = input('Enter the Sentence: ')
4  vowel = space = 0
5  words = len(phrase.split(' '))
6
7  for ch in phrase:
8      if ch == ' ':
9          space += 1
10
11     if ch in 'AEIOUaeiou':
12         vowel += 1
13
14 print('There %s Words, %s vowels and %s spaces'
    % (words, vowel, space))
15
```

```python
# WAP to print a diamond shape in python

def Diamond(rows):
    n = 0
    for i in range(1, rows + 1):
        # loop to print spaces
        for j in range(1, (rows - i) + 1):
            print(end=" ")

        # loop to print star
        while n != (2 * i - 1):
            print("*", end="")
            n = n + 1
        n = 0
        print()

    k = 1
    n = 1
    for i in range(1, rows):
        # loop to print spaces
        for j in range(1, k + 1):
            print(end=" ")
        k = k + 1

        # loop to print star
        while n <= (2 * (rows - i) - 1):
            print("*", end="")
            n = n + 1
        n = 1
        print()


rows = int(input("Enter Rows: "))
Diamond(rows)

```

```
"""
WAP to print the following pattern if a certain
word is entered
H e l l o
 H e l l
  H e l
   H e
    H
"""

sen = input('Enter the word: ')
length = len(sen)
space = 0

for i in range(length, 0, -1):
    print(' '*space, end='')

    for ch in sen[:i]:
        print(ch, end=' ')
    print()
    space += 1

```

```
1  # Program to find the small n largest word in a
   string
2
3  txt = input('Enter a Sentence: ').split()
4  len_list = []
5
6  for w in txt:
7      len_list.append(len(w))
8
9  big_word = len_list.index(max(len_list))
10 small_word = len_list.index(min(len_list))
11
12 print('Biggest word is: ', txt[big_word])
13 print('Smallest word is: ', txt[small_word])
14
```