```
11 11 11
 1
2 WAP to print the following pattern
 3
       1
 4
       121
      12321
 5
6 """
7
8 space = int(input('Enter Step Size: '))
9 c = '1'
10 while space >= 1:
       print(' ' * space, int(c) ** 2)
11
       c += '1'
12
13
      space -= 1
14
```

```
File - C:\Users\adtya\Documents\PYTHON\PyCharm\Term-1 Prj\String\11 sep.py
 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
        if ch in 'AEIOUaeiou':
11
12
             vowel += 1
13
14 print('There %s Words, %s vowels and %s spaces'
    % (words, vowel, space))
15
```

```
1 # A Welcome Program
 2
 3 print('Hi!')
 4 print('You are right now in the world of ATLANTIS
   !\n')
 5 name = input('Please Enter Your Name\n')
 6 print('\nNice to meet you {}'.format(name.upper
   ()))
7 age = int(input('What\'s your age?\n'))
 9 if age < 18:
10
       print('You can fulfill the age requirement in
11
    the next {} years!'.format(18 - age))
12 else:
       print('Welcome!!!')
13
14
```

```
1 # WAP to print the mirror image of simple strings
 3 tstr = input('Enter String: ')
 4
 5 print("The original string is : " + str(tstr))
 7 mir_dict = {'b': 'd', 'd': 'b', 'i': 'i', 'o': 'o
   ', 'v': 'v', 'w': 'w', 'x': 'x'}
8 res = ''
 9
10 for ele in tstr:
11
       if ele in mir_dict:
12
           res += mir_dict[ele]
13
14
      else:
15
           res = "Not Possible"
16
           break
17
18 print("The mirror string : " + str(res)[::-1])
19
```

```
File - C:\Users\adtya\Documents\PYTHON\PyCharm\Term-1 Prj\String\Type C - Q2 - Pg 92.py
 1 # WAP to count the number of words and characters
    with the percentage of characters that are
   alphanumeric
 3 s = input('Enter the Sentence: ')
 5 words = len(s.split())
 6 \text{ chars} = len(s)
 8 alphanum = 0
10 for ch in s:
11
        if ch.isalnum():
12
            alphanum += 1
13
14 charpercent = (alphanum/chars)*100
15
16 print(s)
17 print("Number of Words: ", words)
18 print("Number of Characters: ", chars)
19 print("Percentage of characters that are
   alphanumeric: ", charpercent)
20
```

```
1 # WAP to print the longest word in a list of
   words
 2
 3 words = eval(input('Enter the List of Words: '))
 5 colossal = []
 6 tmp = words[0]
 7
 8 for i in range(len(words)):
      if len(tmp) > len(words[i]):
 9
          continue
10
11
12
      elif len(words[i]) > len(tmp):
          tmp = words[i]
13
14
15 print(tmp)
16
```