

In [1]:

```
1  '''
2  Modify following program with walrus operator
3
4  Hint: Combine lines 7 , 8 and 10 to a single line with walrus op
5  '''
6  a = 'Hyd is green city. Hyd is hitec city. Hyd is his cityi'
7  index = a . find('is')
8  while index != -1:
9      print(index)
10     index = a . find('is' , index +1)
11 print('End')
```

4  
23  
42  
46  
End

In [2]:

```
1  ''' (Home work)
2  index() method demo program
3
4  Modify the following program with index() method
5  '''
6  a = 'Hyd is green city. Hyd is hitec city. Hyd is his cityi'
7  try:
8      index1 = a . index('is')
9      while index1 != -1:
10         print(index1)
11         index1 = a . index('is' , index1 + 1)
12 except ValueError:
13     print('End')
14
15
16
```

4  
23  
42  
46  
End

In [5]:

```

1  '''(Home work)
2  rfind() method demo program
3
4  Modify following program with rfind() method
5  '''
6  a = 'Hyd is green city. Hyd is hitec city. Hyd is his cityi'
7  index = a . rfind('is')
8  while index != -1:
9      print(index)
10     index = a . rfind('is' ,0, index + 1)
11 print('End')
12

```

46  
42  
23  
4  
End

In [8]:

```

1  ''' (Home work)
2  rindex() method demo program
3
4  Modify following program with rindex() method
5
6  Hint: Use try and except
7  '''
8  a = 'Hyd is green city. Hyd is hitec city. Hyd is his cityi'
9  try:
10     index = a . rindex('is')
11     while index != -1:
12         print(index)
13         index = a . rindex('is' ,0, index + 1)
14 except ValueError:
15     print('End')
16
17

```

46  
42  
23  
4  
End

In [28]:

```

1  '''
2  Write a program to replace every occurrence of first character in
3
4  Let input be 'babble'
5  What is the output ? ---> ba**le
6  '''
7  a='babble'
8  print(a[0]+a[1:].replace(a[0],'*'))

```

ba\*\*le

In [29]:

```

1 # Find outputs (Home work)
2 a = '15:36:48'
3 print(a . split(':'))
4 print(a)

```

```

['15', '36', '48']
15:36:48

```

In [42]:

```

1 '''
2 Write a program to evaluate an expression which contains only + s
3 Let input be 123+45+6+789
4 Print the sum result
5 '''
6
7 a=input('Enter the expression:')
8 b=a.split('+')
9 c=0
10 for i in b:
11     c+=int(i)
12 print(c)
13

```

```

Enter the expression:657+8+4+3
672

```

In [56]:

```

1 '''
2 Write a program to append 'ing' to input string.
3 Append 'ly' to the string if the string already ends with 'ing'.
4 Leave the string unchanged if string has less than three characters
5
6 1) What is the output if input is 'interest' ? ---> interesting
7
8 2) What is the output if input is 'interesting' ? ---> interestingly
9
10 3) What is the output if input is Hi ? ---> Hi itself
11 '''
12
13 a=input("enter string: ")
14 if len(a)<3:
15     print(a)
16 elif a.endswith('ing'):
17     print(a+'ly')
18 else:
19     print(a+'ing')
20

```

```

enter string: hi
hi

```

```
In [61]: 1 # isspace() method demo program (Home work)
2 print('\n A\t' . isspace()) # False
3 print('\n \t' . isspace()) # True
4 print('\n 7\t' . isspace())
5 print('\n' . isspace())
6 print('\n $\t' . isspace())
7 print('\t' . isspace())
8 print(' ' . isspace())
9 print(' ' . isspace())
10
```

```
False
True
False
True
False
True
False
True
```

```
In [70]: 1 # Find outputs (Home work)
2 a , b , c = 25 , 10.8 , 'Hyd'
3 print('a : {} \t b : {} \t c : {} ' . format(a , b , c))
4 print('a : {0} \t b : {1} \t c : {2} ' . format(a , b , c))
5 print('a : {2} \t b : {1} \t c : {0} ' . format(a , b , c))
6 print('a : {2} \t b : {2} \t c : {2} ' . format(a , b , c))
7 print('a : {x} \t b : {y} \t c : {z} ' . format(x = a , y = b , z
8 print('a : {x} \t b : {y} \t c : {z} ' . format(z = a , y = b , x
9 print('a : {z} \t b : {z} \t c : {z} ' . format(z = a ,y=b,x=c))
```

```
a : 25      b : 10.8    c : Hyd
a : 25      b : 10.8    c : Hyd
a : Hyd     b : 10.8    c : 25
a : Hyd     b : Hyd     c : Hyd
a : 25      b : 10.8    c : Hyd
a : Hyd     b : 10.8    c : 25
a : 25      b : 25      c : 25
```

In [86]:

```
1  '''
2  Write a program to determine user input is alphabet , digit , white
3
4  1) What are the three outputs if input is 'A' ? ---> Alphanumeric
5
6  2) What are the three outputs if input is 'a' ? ---> Alphanumeric
7
8  3) What are the two outputs if input is '7' ? ---> Alphanumeric ch
9
10 4) What is the output if input is '$' ? ---> Special character
11
12 5) What is the output if input is <spacebar> ? ---> White space
13
14 6) What is the output if input is <tab> key ? ---> White space
15
16 7) What is the output if input is <enter> key ? ---> White spac
17
18 8) Hint2: Use nested if and elif
19  '''
20
21
22 a=input('Enter any character: ')
23 if a.isalpha():
24     print('Alphabet character')
25     print('Alphanumeric character')
26     if a.isupper():
27         print('Upper case alphabet')
28     else:
29         print('lower case alphabet')
30 elif a.isnumeric():
31     print(' Alphanumeric character')
32     print("digit character")
33 elif a.isspace():
34     print('White space')
35 else:
36     print("Special character")
```

Enter any character:

White space

In [92]:

```

1  '''
2  Write a program to reverse a string without slice
3
4  1) Let input be Hyd
5     What is the output ? ---> dyH
6
7  2)   H       y       d
8       -3      -2      -1
9
10      i       a[-i]       b
11      -----
12              ''
13      1       'd'         '' + 'd' = 'd'
14      2       'y'         'd' + 'y' = 'dy'
15      3       'H'         'dy' + 'H' = 'dyH'
16      -----
17  '''
18  a=input('Enter string')
19  b=''
20  for i in range(1,len(a)+1):
21      b+=a[-i]
22  print(b)

```

Enter stringHyd

dyH

In [93]:

```

1  '''
2  Write a program to reverse order of words in the sentence without
3
4  1) Let input be Hyd is green city
5     What is the output ? ---> city green is Hyd
6
7  2) What is the result of input . split() ? ---> ['Hyd' , 'is' , 'gree
8
9  3) i       b[-i]       c
10     -----
11             ''
12     1       'city'       '' + 'city' + ' ' = 'city '
13     2       'green'      'city ' + 'green' + ' ' = 'city green '
14     3       'is'         'city green ' + 'is' + ' ' = 'city green is '
15     4       'Hyd'        'city green is ' + 'Hyd' + ' ' = 'city green is Hyd'
16     -----
17  '''
18  a=input("Enter String")
19  b=a.split()
20  c=''
21  for i in range(1,len(b)+1):
22      c+=b[-i]+' '
23  print(c)
24

```

Enter StringHyd is green city

city green is Hyd

In [95]:

```
1  '''
2  Write a program to reverse each word of the sentence
3
4  1) Let input be Hyd is green city
5     What is the output ? ---> dyH si neerg ytic
6
7  2) Hint: Use for each loop and also slice
8  '''
9
10 a=input("enter sentence: ")
11 b=a.split()
12 c=''
13 for i in b:
14     c+=i[::-1]+" "
15 print(c)
```

enter sentence: Hyd is green city  
dyH si neerg ytic

In [104]:

```
1  '''
2  Write a program to sort string such that alphabets in alphabetical
3
4  Let input be Z9K3PA7D51
5  What is the output ? ---> ADKPZ13579
6
7  1)What is the result after input is sorted ? ---> '13579ADKPZ'
8
9  2) alpha = '' + 'A' + 'D' + 'K' + 'P' + 'Z'
10     digit = '' + '1' + '3' + '5' + '7' + '9'
11
12  3) What is the result after alpha and digit are concatenated ? ---
13  '''
14
15 a=input("enter string: ")
16 alpha=[]
17 digit=[]
18 for i in a:
19     if i.isalpha():
20         alpha.append(i)
21     else:
22         digit.append(i)
23 alpha.sort()
24 digit.sort()
25 sortedele=''
26 for i in alpha:
27     sortedele+=i
28 for i in digit:
29     sortedele+=i
30 print(sortedele)
31
```

enter string: Z9K3PA7D51  
ADKPZ13579

In [ ]:

1