

UDAYKIRANREDDY.KOMIRELLY.BDAT1004PS#

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1 QUESTION-1

```
[13]: v=5  
      print(type(v))
```

```
<class 'int'>
```

```
[2]: v=5.0  
     print(type(v))
```

```
<class 'float'>
```

```
[3]: v=5 > 1  
     print(type(v))
```

```
<class 'bool'>
```

```
[4]: v='5'  
     print(type(v))
```

```
<class 'str'>
```

```
[5]: v=5*2  
     print(v)  
     print(type(v))
```

```
10
```

```
<class 'int'>
```

```
[6]: v='5'*2  
     print(v)  
     print(type(v))
```

```
55
```

```
<class 'str'>
```

```
[7]: v='5'+ '2'  
     print(v)
```

```
print(type(v))
```

52

<class 'str'>

```
[8]: v=5/2
      print(v)
      print(type(v))
```

2.5

<class 'float'>

```
[9]: v=5%2
      print(v)
      print(type(v))
```

1

<class 'int'>

```
[10]: v={5,2,1}
       print(v)
       print(type(v))
```

{1, 2, 5}

<class 'set'>

```
[11]: v=(5==3)
       print(v)
       print(type(v))
```

False

<class 'bool'>

```
[12]: v=3.14
       print(type(v))
```

<class 'float'>

2 QUESTION-2

```
[14]: v="Supercalifragilisticexpialidocious"
       print(len(v))
```

34

```
[15]: v="Supercalifragilisticexpialidocious"
       a="ice"
```

```

if a in v:
    print("yes")
else:
    print("no")

```

yes

```

[18]: list = []
      ↪ ["Supercalifragilisticexpialidocious", "Honorificabilitudinitatibus", "Bababadalgharaghtakam"]

res = max(list, key = len)
print("Maximum length string is : " + res)

```

Maximum length string is : Supercalifragilisticexpialidocious

```

[19]: composers = ['Berlioz', 'Borodin', 'Brian', 'Bartok', 'Bellini', 'Buxtehude',
      ↪ 'Bernstein']
      composers.sort()
      print(composers)

```

['Bartok', 'Bellini', 'Berlioz', 'Bernstein', 'Borodin', 'Brian', 'Buxtehude']

3 QUESTION-3

```

[21]: a = 2
      b = 2
      c = 2
      s = (a + b + c) / 2
      area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
      print('The area of the triangle is %0.16f ' %area)

```

The area of the triangle is 1.7320508075688772

4 QUESTION-6

```

[30]: pigLatin = input("Convert message to pig latin: ")
      wordList = pigLatin.lower().split(" ")
      vowels = ['a', 'e', 'i', 'o', 'u']
      pigLatin = []
      eachWord = []
      for word in wordList:
          if word[0] in 'aeiou': #case where vowel is first
              pigLatin.append(word + 'way')
          if word[0] not in 'aeiou':
              for letter in word:
                  if letter in 'aeiou':

```

```

        pigLatin.append(word[word.index(letter):] + word[:word.
↪index(letter)] + 'ay')

print(" ".join(pigLatin))

```

Convert message to pig latin: enter
enterway

```

[32]: pigLatin = input("Convert message to pig latin: ")
wordList = pigLatin.lower().split(" ")
vowels = ['a', 'e', 'i', 'o', 'u']
pigLatin = []
eachWord = []
for word in wordList:
    if word[0] in 'aeiou': #case where vowel is first
        pigLatin.append(word + 'way')
    if word[0] not in 'aeiou':
        for letter in word:
            if letter in 'aeiou':
                pigLatin.append(word[word.index(letter):] + word[:word.
↪index(letter)] + 'ay')

print(" ".join(pigLatin))

```

Convert message to pig latin: happy
appyhay

```

[63]: def splitevenodd(A):
    evenlist = []
    oddlist = []
    for i in A:
        if (i % 2 == 0):
            evenlist.append(i)
        else:
            oddlist.append(i)
    print("Even lists:", evenlist)
    print("Odd lists:", oddlist)

    A=list()
n=int(input("Enter the size of the List ::"))
print("Enter the Elements in the List ::")
for i in range(int(n)):
    k=int(input(""))
    A.append(k)
splitevenodd(A)

```

```
Input In [63]
```

```
A=list()
```

```
^
```

```
IndentationError: unexpected indent
```

5 Question 10

```
[79]: word = input("Enter a word")
```

```
Alphabet=['a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u',
```

```
for i in range(0,26):
```

```
    print(word.count(Alphabet[i]))
```

Enter a wordapple

1

0

0

0

1

0

0

0

0

0

0

1

0

0

0

2

0

0

0

0

0

0

0

0

0

0

6 QUESTION 9

```
[68]: v=(6+'a')
      print(v)
```

```
-----
TypeError                                Traceback (most recent call last)
Input In [68], in <cell line: 1>()
----> 1 v=(6+'a')
      2 print(v)

TypeError: unsupported operand type(s) for +: 'int' and 'str'
```

```
[69]: v=['1','2','3','4','5','6','7','8','9','0']
      print(v[11])
```

```
-----
IndexError                                Traceback (most recent call last)
Input In [69], in <cell line: 2>()
      1 v=['1','2','3','4','5','6','7','8','9','0']
----> 2 print(v[11])

IndexError: list index out of range
```

```
[70]: import math
      v=-1.0
      print(math.sqrt(v))
```

```
-----
ValueError                                Traceback (most recent call last)
Input In [70], in <cell line: 3>()
      1 import math
      2 v=-1.0
----> 3 print(math.sqrt(v))

ValueError: math domain error
```

```
[71]: v=1
      print(x)
```

```
-----
NameError                                Traceback (most recent call last)
Input In [71], in <cell line: 2>()
      1 v=1
----> 2 print(x)
```

```
NameError: name 'x' is not defined
```

```
[73]: v=open("myfie.txt","a")
      print(v)
```

```
<_io.TextIOWrapper name='myfie.txt' mode='a' encoding='cp1252'>
```

7 question 8 txtfile not available

```
[74]: n = float(input("IND"))
      USD=float(0.013)
      print(n*USD)
```

```
IND100
1.3
```

8 txt file not available

9 question 4

```
[78]: def splitevenodd(A):
      evenlist = []
      oddlist = []
      for i in A:
          if (i % 2 == 0):
              evenlist.append(i)
          else:
              oddlist.append(i)
      print("Even lists:", evenlist)
      print("Odd lists:", oddlist)

      A=list()
      n=int(input("Enter the size of the List ::"))
      print("Enter the Elements in the List ::")
      for i in range(int(n)):
          k=int(input(""))
          A.append(k)
      splitevenodd(A)
```

```
File <tokenize>:12
    A=list()
    ^
```

```
IndentationError: unindent does not match any outer indentation level
```

[]: