

## Find and write the output of the following Python codes:

```
def makenew(mystr):
    newstr = " "
    count = 0
    for i in mystr:
        if count%2 !=0:
            newstr = newstr+str(count)
        else:
            if i.islower():
                newstr = newstr+i.upper()
            else:
                newstr = newstr+i
            count +=1
    newstr = newstr+mystr[:1]
    print("The new string is :", newstr)
```

#function calling  
makenew("sTUDeNT")

Ans: The new string is : S1U3E5Ts

```
s="welcome2kv"
n = len(s)
m=""
for i in range(0, n):
    if (s[i] >= 'a' and s[i] <= 'm'):
        m = m +s[i].upper()
    elif (s[i] >= 'n' and s[i] <= 'z'):
        m = m +s[i-1]
    elif (s[i].isupper()):
        m = m + s[i].lower()
    else:
        m = m +'#'
print(m)
```

Ans vELCcME#Kk

```
def display(s):
    l = len(s)
    m=""
    for i in range(0,l):
        if s[i].isupper():
            m=m+s[i].lower()
        elif s[i].isalpha():
            m=m+s[i].upper()
        elif s[i].isdigit():
            m=m+"$"
        else:
            m=m+"*"
    print(m)

display("EXAM20@cbse.com")
```

Ans exam\$\$\*CBSE\*COM

```
def change(s):
    d = {"UPPER" : 0, "LOWER" : 0 }
    for c in s:
        if c.isupper():
            d["UPPER"] += 1
        elif c.islower():
            d["LOWER"] += 1
        else:
            pass
    print("Upper case count :", d["UPPER"])
    print("Lower case count :", d["LOWER"])

#function calling
change("School Days are Happy")
```

Ans  
Upper case count : 3  
Lower case count : 15

```
def Convert(Old):
    l=len(Old)
    New=""
    for i in range(0,1):
        if Old[i].isupper():
            New=New+Old[i].lower()
        elif Old[i].islower():
            New=New+Old[i].upper()
        elif Old[i].isdigit():
            New=New+"*"
        else:
            New=New+"%"
    return New
```

```
def Show(str):
    m=""
    for i in range(0,len(str)):
        if(str[i].isupper()):
            m=m+str[i].lower()
        elif str[i].islower():
            m=m+str[i].upper()
        else: if i%2==0:
            m=m+str[i-1]
        else:
            m=m+"#"
    print(m)
```

Show('HappyBirthday')

|  |  |
|--|--|
| <pre>Older = "InDia@2020" Newer=Convert(Older) print("New string is: ",Newer)</pre> <p>Ans New string is : iNdiA%****</p>  | <p>Ans<br/>hAPPYbIRTHDAY</p>   |
| <pre>def replaceV(st):     newstr = ""     for character in st:         if character in 'aeiouAEIOU':             newstr += '*'         else:             newstr += character     return newstr  st = "Hello how are you" st1 = replaceV(st) print("The original String is:", st) print("The modified String is:", st1)</pre> <p>Ans<br/>The original String is: Hello how are you<br/>The modified String is: H*ll* h*w *r* y**</p> | <pre>def swap(P ,Q):     P,Q=Q,P     print( P,"#",Q)     return (P)</pre> <p>R=100<br/>S=200<br/>R=swap(R,S)<br/>print(R,"#",S)</p> <p>Ans<br/>200 # 100<br/>200 # 200</p>   |
| <pre>def Display(str):     m=""     for i in range(0,len(str)):         if(str[i].isupper()):             m=m+str[i].lower()         elif str[i].islower():             m=m+str[i].upper()         else:             if i%2==0:                 m=m+str[i-1]             else:                 m=m+"#"     print(m)  Display('Fun@Python3.0')</pre> <p>Ans fUN#pYTHONn#</p>  | <pre>Text="Welcome Python" L=len(Text) ntext="" for i in range (0,L):     if Text[i].isupper():         ntext=ntext+Text[i].lower()     elif Text[i].isalpha():         ntext=ntext+Text[i].upper()     else:         ntext=ntext+"!!" print (ntext)</pre> <p>Ans<br/>wELCOME!!pYTHON</p>    |
| <pre>def mainu():     Moves=[11, 22, 33, 44]     Queen=Moves     Moves[2]+=22     L=len(Moves)     for i in range (L):         print(Queen[L-i-1], "#", Moves [i])  #function calling mainu()</pre> <p>Ans<br/>44 # 11</p>   | <pre>s="United Nations" for i in range(len(s)):     if i%2==0:         print(s[i],end= ' ')     elif s[i]&gt;='a' and s[i]&lt;='z':         print('*', end= ' ')     elif s[i]&gt;='A' and s[i] &lt;='Z':         print(s[i:],end= ' ')</pre> <p>Ans<br/>U * i * e * Nations a * i * n *</p> |

|  |   |
|--|---|
| 55 # 22<br>22 # 55<br>11 # 44  |   |
| <pre>tup=(10,30,15,9) s=1 t=0 for i in range(s,4):     t=t+tup[i]     print(i,":",t)     t=t+tup[0]*10     print(t)</pre> <p><b>Ans</b><br/> <b>1 : 30</b><br/> <b>130</b><br/> <b>2 : 145</b><br/> <b>245</b><br/> <b>3 : 254</b><br/> <b>354</b></p>   | <pre>L=["X",20,"Y",10,"Z",30] CNT = 0 ST = "" INC = 0 for C in range(1,6,2):     CNT= CNT + C     ST= ST + L[C-1] + "@"     INC = INC + L[C]     print(CNT, INC, ST)</pre> <p><b>Ans</b><br/> <b>1 20 X@</b><br/> <b>4 30 X@Y@</b><br/> <b>9 60 X@Y@Z@</b></p>  |
| <pre>def increment(n):     n.append([4])     return n  L=[1,2,3] M=increment(L) print(L, M)</pre> <p><b>Ans [1, 2, 3, [4]] [1, 2, 3, [4]]</b></p>  | <pre>def display(x=2,y=3):     x=x+y     y += 2     print(x,y) display() display(5,1) display(9)</pre> <p><b>Ans</b><br/> <b>5 5</b><br/> <b>6 3</b><br/> <b>12 5</b></p>   |
| <pre>mystr="cs2study@" newstr = " " count = 0 for i in mystr:     if count%2 !=0:         newstr = newstr+str(count)     else:         if islower(i):             newstr = newstr+upper(i)         else:             newstr = newstr+i             count +=1 newstr = newstr+mystr[:1] print ("The new string is :",newstr)</pre> <p><b>Ans</b><br/> <b>The new string is : CcSc2c1c1c1c1c1c1c</b></p> | <pre>data=['d','o',' ','k','t',' ','@',' ','1','2','3',' ','!'] for i in range(len(data)-1):     if(data[i].isupper()):         data[i]=data[i].lower()     elif(data[i].isspace()):         data[i]=data[i+1] print (data)</pre> <p><b>Ans</b><br/> <b>['d', 'o', 'k', 'k', 't', '@', '@', '1', '1', '2', '3', '!', '!']</b></p> |
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