

Write the Python statement for each of the following tasks using built-in functions/methods only : 1 + 1 = 2

- (i) To remove the item whose key is "NISHA" from a dictionary named **Students**.

For example, if the dictionary **Students** contains {"ANITA":90, "NISHA":76, "ASHA":92}, then after removal the dictionary should contain {"ANITA":90, "ASHA":92}

- (ii) To display the number of occurrences of the substring "is" in a string named **message**.

For example if the string **message** contains "This is his book", then the output will be 3.

A tuple named **subject** stores the names of different subjects. Write the Python commands to convert the given tuple to a list and thereafter delete the last element of the list.

Given the following dictionary

```
Day={1:"Monday", 2:"Tuesday", 3:"Wednesday"}
```

Which statement will return "Tuesday".

- (a) `Day.pop()`
- (b) `Day.pop(2)`
- (c) `Day.pop(1)`
- (d) `Day.pop("Tuesday")`

Which of the following functions is a valid built-in function for both list and dictionary datatype ?

- (a) `items()`
- (b) `len()`
- (c) `update()`
- (d) `values()`

Write the output of the code given below :

```
dict1={1:["Rohit",20], 2:["Siya",90]}
dict2={1:["Rahul",95], 5:["Rajan",80]}
dict1.update(dict2)
print(dict1.values())
```

Predict the output of the following code:

```
d={}
V="programs"
for x in V:
    if x in d.keys():
        d[x]=d[x]+1
    else:
        d[x]=1
print(d)
```

OR

Predict the output of the following code:

```
V="interpreter"
L=list(V)
L1=""
for x in L:
    if x in ['e','r']:
        L1=L1+x
print(L1)
```

Given the following dictionaries

```
dict_stud = {"rno" : "53", "name" : 'Rajveer Singh'}
```

```
dict_mark = {"Accts" : 87, "English" : 65}
```

Which statement will merge the contents of both dictionaries?

(a) dict_stud + dict_mark

(b) dict_stud.add(dict_mark)

(c) dict_stud.merge(dict_mark)

(d) dict_stud.update(dict_mark)

Count and display those lines that contains atleast 10 words

Count the words ending with digit

```
S="Racecar Car Radar"  
L=S.split()  
for W in L :  
    x=W.upper()  
    if x==x[::-1]:  
        for I in x:  
            print(I,end="*")  
    else:  
        for I in W:  
            print(I,end="#")  
print()
```

Predict the output of the Python code given below :

```
s="India Growing"  
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] >= 'O' and s[i] <= 'z') :  
        m = m +s [i-1]  
    elif (s[i].isupper()):  
        m = m + s[i].lower()  
    else:  
        m = m + '@'  
print (m)
```

Predict the output of the Python code given below

```
text="LearningCS"  
L=len(text)  
ntext=""  
for i in range (0,L):  
    if text[i].islower():  
        ntext=ntext+text[i].upper()  
    elif text [i].isalnum():  
        ntext=ntext+text[i-1]  
    else:  
        ntext=ntext+'&&'  
print (ntext)
```

Predict the output of the Python code given below

```
Mystr='No@1'
```

```

newstr=""
count=0
for i in mystr:
    if count%2!=0:
        newstr=newstr+str(count)
    else :
        if i.lower():
            newstr=newstr+i.upper()
        else:
            newstr=newstr+i
    count+=1
print(newstr)

Con1="SILENCE-HOPE-SUCCEss@25"
Con2=""
i=0
while i<len(Con1):
    if Con1[i]>='0' and Con1[i]<='9':
        Num=int(Con1[i])
        Num-=1
        Con2=Con2+str(Num)
    elif Con1[i]>='A' and Con1[i]<='Z':
        Con2=Con2+Con1[i+1]
    else:
        Con2=Con2+'^'
    i+=1
print(Con2)

```

- (A) Which of the following function will help in converting a string to list with elements separated according to delimiter passed?
- (A) A) list() B) split() C) str() D) shuffle()

What is the output of the following?

```
OCEANS=('pacific','arctic','Atlantic','southern')
print(OCEANS[4])
```

- A) 'southern' B) ('southern') C) Error D) INDEX
-

Give an example of each of the following :

- (i) An expression using any one identity operator.
- (ii) An arithmetic expression which uses any one augmented assignment operator.

Consider T=(10,20,30) and L=[60,50,40] answer the question I and II

(I) Write command(s) to add tuple T in list L.

OR

Write command to find and delete element 20 from tuple T

(II) Write command to add 50 in L at position 2.

OR

Write command to delete the variable T.

Write the Python statement for each of the following tasks using

BUILT-IN functions/methods only : 1+1=2

- (i) To delete an element 10 from the list lst.
- (ii) To replace the string "This" with "That" in the string str1.

State the output of the following

L1=[1,2,3]	i)	[1,3,7]
L2=L1	ii)	[2,3,7]
L1.append(7)	iii)	[1,14,3,7]
L2.insert(2,14)	iv)	[2,14,3,7]
L1.remove(1)		
print(L1)		

If L1 = [13,25,41,25,63,25,18,78] and L2= [58,56,25,74,56]

- (i) A) Write a statement to remove fourth element from L1
- Or
- B) Write the statement to find maximum element in L2

(ii) (A) write a statement to insert L2 as the last element of L1

OR

(B) Write a statement to insert 15 as second element in L2

Write the Python statement for each of the following tasks using BUILT_IN functions/ methods only:

- i) str="PYTHON@LANGUAGE"
- (A) To print the above string from index 2 onwards.

OR

- (B) To initialize an empty dictionary named as d.

ii) Write the Python statement for each of the following tasks using BUILT_IN functions/ methods only:

- (A) s="LANGUAGE"
- To convert the above string into list.

OR

- (B) To initialize an empty tuple named as t.

SECTION - A

State True or False.

“Identifiers are names used to identify a variable, function in a program”.

State True or False.

“Comments are not executed by interpreter.”

State True or False

“continue keyword skips remaining part of an iteration in a loop”

Write a function `search_replace()` in Python which accepts a list `L` of numbers and a number to be searched. If the number exists, it is replaced by 0 and if the number does not exist, an appropriate message is displayed.

Write a function `EOReplace()` in Python, which accepts a list `L` of numbers. Thereafter, it increments all even numbers by 1 and decrements all odd numbers by 1.