
CBSE 2024 COMPARTMENT

22. Predict the output of the following code : 2

```
d={"IND": "DEL", "SRI": "COL", "CHI": "BEI"}
str1=""
for i in d:
    str1=str1+str(d[i])+"@"
    str2=str1[:-1]
print (str2)
```

23. (a) 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**.

OR

- (b) A dictionary **dict2** is copied into the dictionary **dict1** such that the common key's value gets updated. Write the Python commands to do the task and after that empty the dictionary **dict1**. 2

26. Predict the output of the Python code given below : 3

```
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)
```

22. Write the output displayed on execution of the following Python code : 2

```
LS=["HIMALAYA", "NILGIRI", "ALASKA", "ALPS"]
D={}
for S in LS :
    if len(S)%4 == 0:
        D[S] = len(S)
for K in D :
    print(K,D[K], sep = "#")
```

23. (A) 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.

OR

- (B) 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.

26. Write the output on execution of the following Python code : 3

```
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()
```

21. (a) Given is a Python string declaration : 1
`NAME = "Learning Python is Fun"`
Write the output of : `print(NAME[-5:-10:-1])`
- (b) Write the output of the code given below : 1
`dict1={1: ["Rohit", 20], 2: ["Siya", 90]}`
`dict2={1: ["Rahul", 95], 5: ["Rajan", 80]}`
`dict1.update(dict2)`
`print(dict1.values())`
32. (a) (i) What possible output(s) are expected to be displayed on screen at the time of execution of the following code ? 2

```
import random
S=["Pen", "Pencil", "Eraser", "Bag", "Book"]
for i in range (1,2):
    f=random.randint(i,3)
    s=random.randint(i+1,4)

    print(S[f],S[s],sep=":")
```

Options :

- (I) Pencil:Book
- (II) Pencil:Book
Eraser:Bag
- (III) Pen:Book
Bag:Book
- (IV) Bag:Eraser

OR

- (b) (i) Predict the output of the code given below :

2

```
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)
```

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21. (a) Given is a Python list declaration : 1
Listofnames=["Aman", "Ankit", "Ashish", "Rajan", "Rajat"]
Write the output of :
print (Listofnames [-1:-4:-1])
- (b) Consider the following tuple declaration : 1
tup1=(10,20,30,(10,20,30),40)
Write the output of :
print(tup1.index(20))
32. (a) What possible output(s) are expected to be displayed on screen at the time of execution of the following program :
import random
M=[5,10,15,20,25,30]
for i in range(1,3):
 first=random.randint(2,5)- 1
 sec=random.randint(3,6)- 2
 third=random.randint(1,4)
 print(M[first],M[sec],M[third],sep="#")
- | | |
|----------------|----------------|
| (i) 10#25#15 | (ii) 5#25#20 |
| 20#25#25 | 25#20#15 |
| (iii) 30#20#20 | (iv) 10#15#25# |
| 20#25#25 | 15#20#10# |
- 2

OR

- (a) Predict the output of the code given below :

```
def makenew(mystr):  
    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)  
makenew("No@1")
```