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**CBSE 2024 COMPARTMENT**

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20. Observe the following code carefully and rewrite it after removing **all syntactical errors**. Underline all the corrections made. 2

```
def lfunc():  
    a=input("Enter a number")  
    if a>=33  
        print("Promoted to next class")  
    ELSE:  
        print("Repeat")
```

21. (a) Write the definition of a method/function **SearchOut(Teachers, TName)** to search for **TName** from a list **Teachers**, and display the position of its presence. 2

For example :

If the **Teachers** contain ["Ankit", "Siddharth", "Rahul", "Sangeeta", "rahul"]

and **TName** contains "Rahul"

The function should display

Rahul at 2

rahul at 4

**OR**

- (b) Write the definition of a method/function **Copy\_Prime(lst)** to copy all the prime numbers from the list **lst** to another list **lst\_prime**. 2

25. Predict the output of the following code : 2

```
def Total (Num=10):  
    Sum=0  
    for C in range(1,Num+1):  
        if C%2!=0:  
            continue  
        Sum+=C  
    return Sum  
print(Total(4),end="$")  
print(Total(),sep="@")
```

20. The code given below accepts five numbers and displays whether they are even or odd : 2

Observe the following code carefully and rewrite it after removing all syntax and logical errors :

Underline all the corrections made.

```
def EvenOdd()  
    for i in range(5):  
        num=int(input("Enter a number"))  
        if num/2==0:  
            print("Even")  
        else:  
            print("Odd")  
EvenOdd()
```

21. (A) Write a user defined function in Python named **showGrades(S)** which takes the dictionary S as an argument. The dictionary, S contains **Name: [Eng,Math,Science]** as **key:value** pairs. The function displays the corresponding grade obtained by the students according to the following grading rules : 2

| Average of Eng,Math,Science | Grade |
|-----------------------------|-------|
| >=90                        | A     |
| <90 but >=60                | B     |
| <60                         | C     |

For example : Consider the following dictionary

**S={"AMIT": [92,86,64] , "NAGMA": [65,42,43] , "DAVID": [92,90,88]}**

The output should be :

**AMIT - B**

**NAGMA - C**

**DAVID - A**

OR

- (B) Write a user defined function in Python named **Puzzle(W,N)** which takes the argument **W** as an English word and **N** as an integer and returns the string where every **N<sup>th</sup>** alphabet of the word **W** is replaced with an underscore ("\_").

For example : if **W** contains the word **"TELEVISION"** and **N** is 3, then the function should return the string **"TE\_EV\_SI\_N"**. Likewise for the word **"TELEVISION"** if **N** is 4, then the function should return **"TEL\_VIS\_ON"**.

25. Predict the output of the following code :

2

```
def callon(b=20,a=10):  
    b=b+a  
    a=b-a  
    print(b,"#",a)  
    return b  
  
x=100  
y=200  
x=callon(x,y)  
print(x,"@",y)  
y=callon(y)  
print(x,"@",y)
```

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**CBSE 2023 COMPARTMENT**

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19. Ravi, a Python programmer, is working on a project in which he wants to write a function to count the number of even and odd values in the list. He has written the following code but his code is having errors. Rewrite the correct code and underline the corrections made.

2

```
define EOCOUNT(L):  
    even_no=odd_no=0  
    for i in range(0,len(L))  
        if L[i]%2=0:  
            even_no+=1  
        Else:  
            odd_no+=1  
    print(even_no, odd_no)
```

24. (a) Write the output of the Python code given below :

2

```
g=0  
def fun1(x,y):  
    global g  
    g=x+y  
    return g  
def fun2(m,n):  
    global g  
    g=m-n  
    return g  
k=fun1(2,3)  
fun2(k,7)  
print(g)
```

**OR**

- (b) Write the output of the Python code given below : 2

```
a=15
def update(x):
    global a
    a+=2
    if x%2==0:
        a*=x
    else:
        a//=x
a=a+5
print(a,end="$")
update(5)
print(a)
```

29. 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. 3

Example :

L = [10,20,30,10,40]

Number to be searched = 10

List after replacement :

L = [0,20,30,0,40]

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**CBSE 2023**

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19. Atharva is a Python programmer working on a program to find and return the maximum value from the list. The code written below has syntactical errors. Rewrite the correct code and underline the corrections made. 2

```
def max_num (L) :
    max=L(0)
    for a in L :
        if a > max
            max=a
    return max
```

24. (a) Write the output of the code given below : 2

```
def short_sub (lst,n) :
    for i in range (0,n) :
        if len (lst)>4:
            lst [i]=lst [i]+lst[i]
        else:
            lst[i]=lst[i]
subject=['CS','HINDI','PHYSICS','CHEMISTRY','MATHS']
short_sub(subject,5)
print(subject)
```

**OR**

(b) Write the output of the code given below :

2

```
a =30
def call (x) :
    global a
    if a%2==0:
        x+=a
    else:
        x-=a
    return x
x=20
print(call(35),end="#")
print(call(40),end= "@")
```

29. 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.

3

Example :

If Sample Input data of the list is :

L=[10,20,30,40,35,55]

Output will be :

L=[11,21,31,41,34,54]