

```
In [1]: 1 def ChangeVal(M,N):
2         for i in range(N):
3             if M[i]%5==0:
4                 M[i]//=5
5             if M[i]%3==0:
6                 M[i]//=3
7     L=[25,8,75,12]
8     ChangeVal(L,4)
9     for i in L:
10        print(i,end="#")
```

5#8#5#4#

```
In [2]: 1 def Update(X=10):
2         X+=15
3         print("Value of X :", X)
4     X=20
5     Update()
6     print("Value of X :", X)
```

Value of X : 25

Value of X : 20

```
In [3]: 1 S="WELCOME"
2     def Change(T):
3         T="HELLO"
4         print(T,end="@")
5     Change(S)
6     print(S)
```

HELLO@WELCOME

```
In [5]: 1 def FunStr(S):
2         T=""
3         for i in S:
4             if i.isdigit():
5                 T=T+i
6         return T
7     X="PYTHON 3.9"
8     Y=FunStr(X)
9     print(X,Y,sep="*")
```

PYTHON 3.9*39

```
In [7]: 1 V=50
2     def Change(N):
3         global V
4         V,N = N,V
5         print(V,N,sep="#",end="@")
6     Change(20)
7     print(V)
```

20#50@20

```
In [8]: 1 def ListChange():
2         for i in range(len(L)):
3             if L[i]%2==0:
4                 L[i]=L[i]*2
5             if L[i]%3==0:
6                 L[i]=L[i]*3
7             else:
8                 L[i]=L[i]*5
9         L=[2,6,9,10]
10        ListChange()
11        for i in L:
12            print(i,end="#")
```

20#36#27#100#

```
In [9]: 1 p=5
2         def sum(q,r=2):
3             global p
4             p=r+q**2
5             print(p,end="#")
6         a=10
7         b=5
8         sum(a,b)
9         sum(r=5,q=1)
```

105#6#

```
In [10]: 1 def func(message,num=1):
2           print(message*num)
3         func("Python")
4         func("Easy",3)
```

Python
EasyEasyEasy

```
In [11]: 1 def fun(s):
2           k=len(s)
3           m=""
4           for i in range(0,k):
5               if s[i].isupper():
6                   m=m+s[i].lower()
7               elif s[i].isalpha():
8                   m=m+s[i].upper()
9               else:
10                  m=m+"bb"
11            print(m)
12            fun("school2@com")
```

SCHOOLbbbbCOM

```
In [12]: 1 def check(n1=1,n2=2):
          2     n1=n1+n2
          3     n2+=1
          4     print(n1,n2)
          5 check()
          6 check(2,1)
          7 check(3)
```

```
3 3
3 2
5 3
```

```
In [13]: 1 def Change(P,Q=30):
          2     P=P+Q
          3     Q=P-Q
          4     print(P,"#",Q)
          5     return(P)
          6 R=150
          7 S=100
          8 R=Change(R,S)
          9 print(R,"#",S)
         10 S=Change(S)
```

```
250 # 150
250 # 100
130 # 100
```

```
In [15]: 1 def Diff(N1,N2):
          2     if N1>N2:
          3         return N1 - N2
          4     else:
          5         return N2 - N1
          6 NUM=[10,23,14,54,32]
          7 for CNT in range (4,0,-1):
          8     A=NUM[CNT]
          9     B=NUM[CNT-1]
         10     print(Diff(A,B), "#",end=" ")
         11
```

```
22 # 40 # 9 # 13 #
```

```
In [1]: 1 def addEm(x,y,z):
          2     print(x+y+z)
          3
          4 def prod(x,y,z):
          5     return x*y*z
          6
          7 a=addEm(6,16,26)
          8 b=prod(2,3,6)
          9 print(a,b)
```

```
48
None 36
```

```
In [2]: 1 def Call(P=40,Q=20):
        2     P=P+Q
        3     Q=P-Q
        4     print(P,"@",Q)
        5     return P
        6 R=200
        7 S=100
        8 R=Call(R,S)
        9 print(R,"@",S)
       10 S=Call(S)
       11 print(R,"@",S)
```

300 @ 200

300 @ 100

120 @ 100

300 @ 120

```
In [3]: 1 num = 1
        2 def myfunc():
        3     return num
        4 print(num)
        5 print(myfunc())
        6 print(num)
```

1

1

1

```
In [4]: 1 num = 1
        2 def myfunc():
        3     num = 10
        4     return num
        5 print(num)
        6 print(myfunc())
        7 print(num)
```

1

10

1

```
In [5]: 1 num = 1
        2 def myfunc():
        3     global num
        4     num = 10
        5     return num
        6 print(num)
        7 print(myfunc())
        8 print(num)
```

1

10

10

```
In [1]: 1 a=20
        2 y=5
        3 def myfunc():
        4     global a
        5     y=a
        6     a=2
        7     print("y=",y,"a=",a)
        8     print("a+y=", a+y)
        9     return a+y
       10 print("y=",y,"a=",a)
       11 print(myfunc())
       12 print("y=",y,"a=",a)
```

```
y= 5 a= 20
y= 20 a= 2
a+y= 22
22
y= 5 a= 2
```

```
In [7]: 1 def display():
        2     print("Hello",end =" ")
        3 display()
        4 print("there!")
```

```
Hello there!
```

```
In [9]: 1 def multiply(number1,number2):
        2     answer=number1*number2
        3     print(number1,"times",number2,"=", answer)
        4     return (answer)
        5 output=multiply(5,5)
```

```
5 times 5 = 25
```

```
In [11]: 1 a=10
        2 def call():
        3     global a
        4     a=15
        5     b=20
        6     print(a)
        7 call()
```

```
15
```

```
In [12]: 1 def increment(n):
        2     n.append([4])
        3     return n
        4 L=[1,2,3,4]
        5 M=increment(L)
        6 print(L,M)
```

```
[1, 2, 3, 4, [4]] [1, 2, 3, 4, [4]]
```

```
In [13]: 1 def increment(n):
2         n.append([49])
3         return n[0] , n[1] , n[2] , n[3]
4 L=[23,35,47]
5 m1,m2,m3,m4=increment(L)
6 print(L)
7 print(m1,m2,m3,m4)
8 print(L[3]==m4)
```

[23, 35, 47, [49]]

23 35 47 [49]

True

```
In [14]: 1 V=25
2 def Fun(Ch):
3         V=50
4         print(V,end=Ch)
5         V*=2
6         print(V,end=Ch)
7 print(V,end="*")
8 Fun("!")
9 print(V)
```

25*50!100!25

```
In [ ]: 1
```