

Sub : 802 : AI_ML Practical Exercise1

Submission Date: 17-12-2025

1. Write statement to call the function.

```
def Add():  
    X = 10 + 20  
    print(X)  
_____ #statement to call the above function
```

2. Write statement to call the function.

```
def Add(X,Y):  
    Z = X+Y  
    print(Z)  
_____ #statement to call the above function
```

3. Write statement to call the function.

```
def Add(X,Y):  
    Z = X+Y  
    return Z  
_____ #statement to call the above function  
print("Total =",C)
```

4. Which Line Number Code will never execute?

```
def Check(num): #Line 1  
    if num%2==0: #Line 2  
        print("Hello") #Line 3  
        return True #Line 4  
        print("Bye") #Line 5  
    else: #Line 6  
        return False #Line 7  
C = Check(20)  
print(C)
```

5. What will be the output of following code?

```
def Cube(n):  
    print(n*n*n)  
Cube(n) # n is 10 here  
print(Cube(n))
```

6. Ravi a python programmer is working on a project, for some requirement, he has to define a function with name CalculateInterest(), he defined it as:

```
def CalculateInterest(Principal,Rate=.06,Time):  
    # code
```

But this code is not working, Can you help Ravi to identify the error in the above function and what is the solution.

7. Call the given function using KEYWORD ARGUMENT with values 100 and 200

```
def Swap(num1,num2):
    num1,num2=num2,num1
    print(num1,num2)
Swap(_____, _____)
```

8. Which line number of code(s) will not work and why?

```
def Interest(P,R,T=7):
    I = (P*R*T)/100
    print(I)
Interest(20000,.08,15) #Line 1
Interest(T=10,20000,.075) #Line 2
Interest(50000,.07) #Line 3
Interest(P=10000,R=.06,Time=8) #Line 4
Interest(80000,T=10) #Line 5
```

9. What will be the output of following code?

```
def Calculate(A,B,C):
    return A*2, B*2, C*2
val = Calculate(10,12,14)
print(type(val))
print(val)
```

10. What is Local Variable and Global Variables? Illustrate with example

11. What will be the output of following code?

```
def check():
    num=50
    print(num)
num=100
print(num)
check()
print(num)
```

12. What will be the output of following code?

```
def check():
    global num
    num=1000
    print(num)
num=100
print(num)
check()
print(num)
```

13. What will be the output of following code?

```
print("Welcome!")
print("I am ",__name__) # __ is double underscore
```

14. What will be the output of following code?

```

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("EXAM2025.com")

```

15. What will be the output of following code?

```

def Alter(M,N=50):
    M = M + N
    N = M - N
    print(M,"@",N)
    return M
A=200
B=100
A = Alter(A,B)
print(A,"#",B)
B = Alter(B)
print(A,"@",B)

```

16. What will be the output of following code?

```

def Total(Number=10):
    Sum=0
    for C in range(1,Number+1):
        if C%2==0:
            continue
        Sum+=C
    return Sum
print(Total(4))
print(Total(7))
print(Total())

```

17. What will be the output of following code?

```

X = 100
def Change(P=10, Q=25):
    global X
    if P%6==0:
        X+=100
    else:
        X+=50

```

```
Sum=P+Q+X
print(P,'#',Q,'$',Sum)
Change()
Change(18,50)
Change(30,100)
```

18. What will be the output of following code?

```
a=100
def show():
    global a
    a=200
def invoke():
    global a
    a=500
show()
invoke()
print(a)
```

19. What will be the output of following code?

```
def drawline(char='$',time=5):
    print(char*time)
drawline()
drawline('@',10)
drawline(65)
drawline(chr(65))
```

20. What will be the output of following code?

```
def Updater(A,B=5):
    A = A // B
    B = A % B
    print(A,'$',B)
    return A + B
A=100
B=30
A = Updater(A,B)
print(A,'#',B)
B = Updater(B)
print(A,'#',B)
A = Updater(A)
print(A,'$',B)
```

21. What will be the output of following code?

```
def Fun1(num1):
    num1*=2
    num1 = Fun2(num1)
    return num1
def Fun2(num1):
    num1 = num1 // 2
```

```
        return num1
n = 120
n = Fun1(n)
print(n)
```

22. What will be the output of following code?

```
X = 50
def Alpha(num1):
    global X
    num1 += X
    X += 20
    num1 = Beta(num1)
    return num1
def Beta(num1):
    global X
    num1 += X
    X += 10
    num1 = Gamma(num1)
    return num1
def Gamma(num1):
    X = 200
    num1 += X
    return num1
num = 100
num = Alpha(num)
print(num,X)
```

23. What will be the output of following code?

```
def Fun1(mylist):
    for i in range(len(mylist)):
        if mylist[i]%2==0:
            mylist[i]/=2
        else:
            mylist[i]*=2
list1 =[21,20,6,7,9,18,100,50,13]
Fun1(list1)
print(list1)
```