In [ ]: `# CASE-1:`

In [1]:
```python
def add1(n1,n2=90):
    add=n1+n2
    print(add)
add1(500)
#STEP1:Defining thee function---->n2=90
#step-2:calling the function---->n1=500
```

590

In [ ]: `#CASE-2:`

In [2]:
```python
def add1(n1,n2=90):
    add=n1+n2
    print(add)
add1(500,1000)
#STEP-1:Defining the function--->n2=90
#STEP-2:calling  the funciton--->n1=500, n2=1000
# n2---->90---->1000
#answer:500+1000=1500
```

1500

In [ ]: `#CASE-3:`

In [4]:
```python
def add1(n1,n2=90):
    n2=2000
    add=n1+n2
    print(add)
add1(500,1000)
#step-1:defining the function----->n2=90
#step-2:calling the function------>n2=1000
#step-3:running the function----->n2=2000
#sum=500+2000
```

2500

In [ ]: `#CASE-4:`

In [7]:
```python
def add1(n1,n2=90):
    n2=2000
    add=n1+n2
    print(add)
n2=3000
add1(500,1000)
#STEP-1:Defining the function---->n2=90
#n2=3000
#step-2:calling the function---->n2=1000
#step-3:running the function------>n2=2000
#90----3000----1000----2000------>2000+500=2500
```

2500

In [ ]: `#CASE-5:`

In [10]:
```python
a=100
b=200
def addition(a=1000):
    add=a+b
    print(add)
addition()
#a=100---->a=1000---->1000+200=1200
#1.global var initialization---100
#2.define func----1000
```

1200

In [ ]: `#CASE-6:`

In [13]:
```python
a=100
b=200
def add1(a,b=1000):
    add=a+b
    print(add)
add1(a=2000,b=3000)
#1.initializing a variable---a=100,b=200
#2.defining the function---->b=1000
#3.calling the function----->a=2000,b=3000
#a---->100---->2000
#b---->200---->1000---->3000
#2000+3000=5000
```

5000

In [ ]: `#CASE-7:`

In [14]:
```python
a=100
b=200
def add1(a=1000,b=200):
    add=a+b
    print(add)
add1(a=2000,b=1200)
#a--->100--->1000--->2000
#b--->200--->200---->1200
```

3200

In [ ]: `#CASE-8:`

In [15]:
```python
a=100
b=200
def add1(a=1000):
    a=5000
    add=a+b
    print(add)
add1(a=2000)
#a--->100--->1000---->2000---->5000
```

```
#b--->200
#5000+200
```

5200

In [ ]: `#CASE-9:`

In [16]:
```python
a=100
b=200
def add1(a=1000):
    a=5000
    add=a+b
    print(add)
a=6000
add1(a=2000)
#a--->100--->1000---->6000--->2000---->5000
#b---->200
```

5200

In [17]: `a`

Out[17]: 6000

In [ ]: `#CASE-10:`

In [20]:
```python
b=200
def add1():
    add=a+b
    print(add)
a=6000
add1()
#b=200
#a not initialized
#a=6000
#6000+200
```

6200

In [ ]: `#CASE-11:`

In [21]:
```python
a=10
b=45
def add1():
    a=50
    add=a+b
    print(add)
add1()
#a---->10--->50
#b--->45
#50+45
```

95

In [ ]: `#CASE-12:`

In [28]:
```python
b=200
def add1():
    add=a+b
    print(add)
add1()
a=6000
#a--->
#b--->200
```

6200

In [27]:
```python
a
```

Out[27]:   6000

In [ ]: