In [1]:
```python
def am9():
    print('good morning guys')
```

In [2]:
```python
def am9():
    print('good morning guys')
am9()
```

good morning guys

In [3]:
```python
def greet():
    print('hello')
    print('good morning')
```

In [4]:
```python
def greet():
    print('hello')
    print('good morning')
greet()
```

hello
good morning

In [5]:
```python
def greet():
    print('hello')
    print('good morning')
greet()

def greet():
    print('hello')
    print('good morning')
greet()

def greet():
    print('hello')
    print('good morning')
greet()
```

hello
good morning
hello
good morning
hello
good morning

In [6]:
```python
def greet():
    print('hello good morning boss')

greet()
```

hello good morning boss

In [7]:
```python
def greet():

    print('hello good morning boss')
greet()

greet()

greet()
```

```
    greet()
```

```
hello good morning boss
hello good morning boss
hello good morning boss
hello good morning boss
```

In [8]:
```python
def add(x,y):# formal argument
    c = x+y
    print(c)


add(5,6,7,8)# positional argument
```

```
---------------------------------------------------------------
TypeError                          Traceback (most recent call last)
Cell In[8], line 5
      2     c = x+y
      3     print(c)
----> 5 add(5,6,7,8)

TypeError: add() takes 2 positional arguments but 4 were given
```

def add(x,y): c = x+y print(c) add(8,6)

In [11]:
```python
def add(x,y,z):
    c=x+y+z+m
    print(c)
add(1,4,5,)
```

```
---------------------------------------------------------------
NameError                          Traceback (most recent call last)
Cell In[11], line 4
      2     c=x+y+z+m
      3     print(c)
----> 4 add(1,4,5,)

Cell In[11], line 2, in add(x, y, z)
      1 def add(x,y,z):
----> 2     c=x+y+z+m
      3     print(c)

NameError: name 'm' is not defined
```

In [12]:
```python
def add(x,y,z,m):
    c=x+y+z+m
    print(c)
add(1,4,5,9)
```

```
19
```

In [13]:
```python
def greet():
    print('hello')
    print('good morning')
greet()
```

```
hello
good morning
```

In [14]:
```python
def add(x,y):
    c = x+y
```

```
    print(c)
add(5,9)
```

14

In [15]:
```python
def greet():
    print('hello')
    print('good morning')
greet()

def add(x,y):
    c = x+y
    print(c)
add(5,7)
```

hello
good morning
12

In [16]:
```python
def greet():
    print('hello')
    print('good morning')
def add(x,y):
    c = x+y
    print(c)

add(5,6)
greet()
```

11
hello
good morning

In [17]:
```python
def greet():
    print('hello')
    print('good noon')

def add(x,y):
    c=x+y
    print(c)

def sub(x,y):
    d = x-y
    print(d)
greet()
add(5,4)
sub(10,2)
```

hello
good noon
9
8

In [18]:
```python
def add_sub(x,y):
    c = x+y
    d = x-y
    print(c)
    print(d)

add_sub(10,5)
```

```
15
5
```

In [19]:
```python
def add_sub(x,y):
    c = x+y
    d = x-y
    return c,d

add_sub(10,5)
```

Out[19]: (15, 5)

In [20]:
```python
def add_sub(x,y):
    c= x+y
    d= x-y
    return c, d

result = add_sub(5,4)

print(result)
```

```
(9, 1)
```

In [22]:
```python
def add_sub(x,y):
    c=x+y
    d= x-y
    return c, d
result1,result2 = add_sub(5,4)
print(result1, result2)
```

```
9 1
```

In [23]:
```python
def add(x,y):
    c = x+y
    print(c)
add(5,6)
```

```
11
```

FORMAL ARGUMENT & ACTUAL ARGUMENT

In [24]:
```python
def person(name,age):
    print(name)
    print(age)

person('nit',23,34)
```

```
---------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[24], line 5
      2     print(name)
      3     print(age)
----> 5 person('nit',23,34)

TypeError: person() takes 2 positional arguments but 3 were given
```

```python
In [25]:  def person(name,age):
              print(name)
              print(age)

          person('nit',23)
```

```
nit
23
```

```python
In [26]:  def person(name,age):
              print(name)
              print(age)

          person(23,'nit')
```

```
23
nit
```

```python
In [35]:  def person(name,age):
              print(name)
              print(age+1)

          person(23,'nit')
```

```
23
```

```
---------------------------------------------------------------
TypeError                         Traceback (most recent call last)
Cell In[35], line 5
      2     print(name)
      3     print(age+1)
----> 5 person(23,'nit')

Cell In[35], line 3, in person(name, age)
      1 def person(name,age):
      2     print(name)
----> 3     print(age+1)

TypeError: can only concatenate str (not "int") to str
```

Key Argument

```python
In [28]:  def person (name,age):
              print(name)
              print(age+1)

          person(age=23, name='nit')
```

```
nit
24
```

```python
In [ ]:   def person(name,age):
              print(name)
              print(age+1)

          person(age1=23, name='nit')
```

In [30]:
```python
def person(name,age1):
    print(name)
    print(age1+1)

person(age1=23, name='nit')
```

```
nit
24
```

In [32]:
```python
def person(name,age,city):
    print(name)
    print(age+1)
    print(city)

person(age=22, name='NIT', city = 'bid')
```

```
NIT
23
bid
```

In [33]:
```python
def person(name, age=18):
    print(name)
    print(age)

person('nit', 24)
```

```
nit
24
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: