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

In [7]:
```
def am9():
    print('good morning team')
am9()
```

```
good morning team
```

In [8]:
```
def greet():
    print('hello')
    print('good morning')
greet()
```

```
hello
good morning
```

In [9]:
```
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 [10]:
```
def greet():
    print('hello good morning boss')
greet()
greet()
greet()
```

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

In [11]:
```
def add(x,y):
    c=x+y
    print(c)
add(5,6,7,8)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[11], line 4
      2     c=x+y
      3     print(c)
----> 4 add(5,6,7,8)

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

In [12]:
```
def add(x,y):
    c=x+y
    print(c)
add(5,6,)
```

```
11
```

In [14]:
```
def add(x,y,z):
    c=x+y+z+m
    print(c)
add(1,4,5)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[14], line 4
      2     c=x+y+z+m
      3     print(c)
----> 4 add(1,4,5)

Cell In[14], 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 [15]:
```
def add(x,y,z,m):
    c=x+y+z+m
    print(c)
add(1,4,5,6)
```

```
16
```

In [16]:
```
def greet():
    print('hello')
    print('good morning')
greet()
```

```
hello
good morning
```

In [18]:
```
def add(x,y):
    c= x+y
    print(c)
add(5,6)
```

```
11
```

In [19]:
```
def greet():
    print('hello')
    print('good morning')
greet()
def add(x,y):
    c= x+y
    print(c)
add(5,6)
```

```
hello
good morning
11
```

In [21]:
```
def greet():
    print('hello')
    print('good morning')
def add(x,y):
    c= x+y
    print(c)
greet()
add(5,6)
```

```
hello
good morning
11
```

In [24]:
```
def greet():
    print('hello')
    print('good morning')
def add(x,y):
    c= x+y
    print(c)
def sub(x,y):
    d=(x-y)
    print(d)
greet()
add(5,6)
sub(10,2)
```

```
hello
good morning
11
8
```

In [25]:
```
def add_sub(x,y):
    c= x+y
    d=x-y
    print(c)
    print(d)
add_sub(10,5)
```

```
15
5
```

In [27]:
```
def add_sub(x,y):
    c= x+y
    d=x-y
```

```
    return c,d
add_sub(10,5)
```

Out[27]: (15, 5)

In [29]:
```
def add_sub(x,y):
    c= x+y
    d=x-y
    return c,d
result1,result2= add_sub(10,5)
print(result1,result2)
```

```
15 5
```

In [30]:
```
def add(x,y):
    c= x+y
    print(c)
add(5,8)
```

```
13
```

FORMAL ARGUMENT AND ACTUAL ARGUMENT

In [31]:
```
def person(name,age):
    print(name)
    print(age)
person('nit', 23)
```

```
nit
23
```

In [32]:
```
def person(name,age):
    print(name)
    print(age)
person(23,'nit')
```

```
23
nit
```

In [34]:
```
def person(name,age):
    print(name)
    print(age+1)
person(23,'nit')
```

```
23
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[34], line 4
      2     print(name)
      3     print(age+1)
----> 4 person(23,'nit')

Cell In[34], 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
```

KEYWORD ARGUMENT

In [35]:
```
def person(name,age):
    print(name)
    print(age+1)
person(age=23,name='nit')
```

```
nit
24
```

In [36]:
```
def person(name,age):
    print(name)
    print(age+1)
person(age1=23,name='nit')
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[36], line 4
      2     print(name)
      3     print(age+1)
----> 4 person(age1=23,name='nit')

TypeError: person() got an unexpected keyword argument 'age1'. Did you mean 'age'?
```

In [38]:
```
def person(name,age1):
    print(name)
    print(age1+1)
person(age1=23,name='nit')
```

```
nit
24
```

In [39]:
```
def person(name,age,city):
    print(name)
    print(age+1)
    print(city)
person(age=23,name='nit', city='hyd')
```

```
nit
24
hyd
```

In [41]:
```
def person(name,age=18):
    print(name)
    print(age)
person('nit',24)
```

```
nit
24
```

In [42]:
```
def person(name,age=18):
    print(name)
    print(age)
person('nit')
```

```
nit
18
```

In [ ]: