

```
In [6]: def hello_world(world):
        print("Hello "+str('wolrd'))
```

```
In [7]: hello_world('world')

Hello wolrd
```

```
In [8]: def sumofnumbers(numbers):
        sumvalue=0
        for num in numbers:
            sumvalue+=num
        return sumvalue
```

```
In [11]: sum=[2,4,6,8,9]
         sumofnumbers(sum)
```

Out[11]: 29

```
In [12]: def factorial(num):
        fact = 1
        while(num>0):
            fact*=num
            num-=1
        return fact
```

```
In [13]: factorial(4)
```

Out[13]: 24

```
In [19]: globalvariable= 'i am global variable'
         def checkvalidity():
             localvariable = 'i am local variable'
             print('inside the function block: ',localvariable)
             print('inside the function block: ',globalvariable)

         checkvalidity()
         print('outside the function block: ',globalvariable)
         print('outside the function block: ',localvariable)
```

```
inside the function block: i am local variable
inside the function block: i am global variable
outside the function block: i am global variable
```

-----  
**NameError**

Traceback (most recent call last)

```
Input In [19], in <cell line: 9>()
      7 checkvalidity()
      8 print('outside the function block: ',globalvariable)
----> 9 print('outside the function block: ',localvariable)
```

**NameError**: name 'localvariable' is not defined

```
In [1]: def sumofnumbers(numbers):  
        """this result in sum of numbers"""  
        sumvalue = 0  
        for num in numbers:  
            sumvalue += num  
        return sumvalue
```

```
In [2]: number = [2,4,6,8,10]  
        print(sumofnumbers(number))
```

30

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: