```
names = ['ramesh','suresh','smith','john','nasar']
In [13]:
             names_up = list(map(str.upper,names))
             print(names_up)
         ['RAMESH', 'SURESH', 'SMITH', 'JOHN', 'NASAR']
 In [ ]:
 In [ ]:
         Decorator ¶
In [17]:
             def welcome(msg):
                 print(msg)
             welcome("Hiiii how are u")
In [19]:
         Hiiii how are u
In [20]:
             greeting = welcome
             greeting("hello hiiii")
         hello hiiii
 In [ ]:
In [21]:
             # calling function within function
             def inc5(x):
                 return (x+5)
             def dec5(x):
                 return (x-5)
             def process(func,x):
                 res = func(x)
                 return res
In [22]:
             process(inc5,100)
Out[22]: 105
In [23]:
             process (dec5,37)
Out[23]: 32
 In [ ]:
```

```
i am normal function
 In [ ]:
In [42]:
             def divide(x,y):
                  return x/y
In [43]:
             divide(10,5)
Out [43]: 2.0
In [44]:
             divide(10,0)
                                                     Traceback (most recent call )
         ZeroDivisionError
         <ipython-input-44-101aa8dc6e2a> in <module>
         ---> 1 divide(10,0)
         <ipython-input-42-cde09cc5b8ef> in divide(x, y)
                1 def divide(x,y):
             -> 2
                      return x/y
         ZeroDivisionError: division by zero
In [47]:
             def divide_smartly(func):
                 def condition(a,b):
                      print("i am performing division")
                      if b == 0:
                          print("you are trying to devide by zero !!!!")
                          return
                      return func(a,b)
                  return condition
In [48]:
             @divide_smartly
             def divide(a,b):
                  return a/b
In [49]:
             divide(10,5)
         i am performing division
Out[49]: 2.0
In [50]:
             divide(10,0)
         i am performing division
         you are trying to devide by zero !!!!
 In [ ]:
 In [ ]:
```