```
def show_employee(name,salary=9000):
    print("Name:",name, "Salary:",salary)
show_employee("Ben",12000)
show_employee("jessa")
```

```
name: Ben salary: 12000
name: jessa salary: 9000
```

```python
mylist=[19, 'red', 12, 'green', 'blue', 10, 'white', 'green', 1]
newlist=sorted(mylist, key=lambda x:(isinstance(x,str),x))
newlist
```

```
[1, 10, 12, 19, 'blue', 'green', 'green', 'red', 'white']
```

```python
    upper_case= map(lambda char: char.upper(),sequance)
    lower_case= map(lambda char: char.lower(),sequance)
    remove_duplicates_upper=list(set(upper_case))
    remove_duplicates_lower=list(set(lower_case))
    return remove_duplicates_upper,remove_duplicates_lower
upper_result,lower_result=change_case({'A','S','T','A','e','b','B','e','E
print("uppercase without duplicates:",upper_result)
print("lowercase without duplicates:",lower_result)
```

```
uppercase without duplicates: ['B', 'T', 'E', 'S', 'A']
lowercase without duplicates: ['t', 'b', 's', 'e', 'a']
```

```python
from functools import import reduce
list=[1,2,3,4,5,6,7,8,9,10]
result=reduce(lambda a,b:a*b,list)
print(result)
```

```python
    even_digit_numbers=[]
    for number in range(start,end+1):
        even_digits= all(int(digit)%2 == 0 for digit in str(number))
        if even_digits:
            even_digit_numbers.append(number)
    return even_digit_numbers
result=find_even_digit_numbers(1000,3000)
print(result)
```

[2000, 2002, 2004, 2006, 2008, 2020, 2022, 2024, 2026, 2028, 2040, 204
2082, 2084, 2086, 2088, 2200, 2202, 2204, 2206, 2208, 2220, 2222, 2224
264, 2266, 2268, 2280, 2282, 2284, 2286, 2288, 2400, 2402, 2404, 2406,
46, 2448, 2460, 2462, 2464, 2466, 2468, 2480, 2482, 2484, 2486, 2488,
8, 2640, 2642, 2644, 2646, 2648, 2660, 2662, 2664, 2666, 2668, 2680, 2
0, 2822, 2824, 2826, 2828, 2840, 2842, 2844, 2846, 2848, 2860, 2862, 2

```python
my_list=[12,0,None,23,None,-55,234,89,None,0,6,-12]
result=filter(lambda x: x is not None,my_list)
print(list(result))
```

```
[12, 0, 23, -55, 234, 89, 0, 6, -12]
```

```python
a=int(input("Enter a number: "))
b=int(input("Enter a number: "))
def add5(a,b):
    def addition(a,b):
        print(a+b)
        addition(a,b)
    print(a+b+5)
add5(a,b)
```

```
mydict={'Cierra Vega': (6.2, 71), 'Alden Cantrell': (5.9, 65), 'Kierra
newdict=filter(lambda i:mydict[i][0]>6 and mydict[i][1]>70,mydict)
for i in newdict:
    print({i:mydict[i]})
```

```
{'Cierra Vega': (6.2, 71)}
```

```python
l=[]
a=input("Enter the sentence: ")
for i in a:
    if i.isnumeric():
        l.append(i)
l
print(len(l),":Number of digits")
k=[]
for i in a:
    if i.isalpha():
        k.append(i)
k
print(len(k),":Number of letters")
```

```python
a=int(input("Enter the number:"))
b=int(input("Enter the number:"))
def addition(a,b):
    def add(a,b):
        print(a+b)
    return(a+b+5)
addition(a,b)
```

```
Enter the number:3
Enter the number:4

12
```

```python
l=[1,2,3,4,5]
i=int(input("Enter a number: "))
x=lambda i:l.count(i)
if x(i)==0:
    print("Element is Not Present in the list")
else:
    print("Element is Present in the list")
```

```
Enter a number: 0
Element is Not Present in the list
```

```python
points = [(1, 2), (5, 3), (0, 7), (3, 1)]
print("The list of tuple is ")
print(points)
print("\nThe answer is")
print(sorted(points,key=lambda x:x[0]+x[1]))
```

```
The list of tuple is
[(1, 2), (5, 3), (0, 7), (3, 1)]

The answer is
[(1, 2), (3, 1), (0, 7), (5, 3)]
```

```python
l1=[1,2,3,4,5]
l2=[6,7,8,9,0]
print("list:")
print(l1)
print(l2)
result = map(lambda x, y: x + y, l1, l2)
print("\nResult: adding two list")
print(list(result))
```

```
list:
[1, 2, 3, 4, 5]
[6, 7, 8, 9, 0]

Result: adding two list
[7, 9, 11, 13, 5]
```

```python
def num(x):
    s=0
    l=0
    for i in x:
        if i.isnumeric():
            s=s+1
        else:
            l=l+1
    print(f"letter={l}\nDigit={s}")

word=input("enter word   ")
num(word)
```