```
def address():
    print('Addagutta')
    print('Near JNTU college')
    print('KPHB')
    print('Kukatpally')
    print('Hyderabad')
    print('Telengana')
    return None

def details():
    print('venkat')
    print('9390018934')
    print('python')
    print('venkat@gmail.com')
    address()
    return None

details()
```

```
venkat
9390018934
python
venkat@gmail.com
Addagutta
Near JNTU college
KPHB
Kukatpally
Hyderabad
Telengana
```

```
def f1():
    print('f1 function start')
    x = 100
    print(x)
    print('f1 function end')
    return None

def f2():
    print('f2 function start')
    y = 200
    f1()
    print(y)
    print('f2 function end')
    return None
f2()
```

```
f2 function start
f1 function start
100
f1 function end
200
f2 function end
```

function recursion

function calling it-self

```
def showname():
    print('venkat')
    showname()
    return None
```

```
showname() # showname function in-finite calls

def shownumber(i):
    print(i)
    shownumber(i+1)
    return None

shownumber(1)

def shownumber(i):
    print(i,end=' ')
    if i >= 5:
        return None
    shownumber(i+1)
    return None

shownumber(1)
```

```
1 2 3 4 5
```

```
l = [1,[2,[3,[4,[5,[6,[7,[8,[9,[10]]]]]]]]]]

def displaynumber(l):
    print(l[0],end=' ')
    if len(l) == 1:
        return None
    displaynumber(l[1])
    return None

displaynumber(l)
```

```
1 2 3 4 5 6 7 8 9 10
```

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