python practical-3 Functions in python

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[1]:
```
def add(a,b):
    c=a+b
    print(c)
```

[2]:
```
add(3,4)
```

```
7
```

[3]:
```
add(6.7,8.9)
```

```
15.600000000000001
```

[4]:
```
add(7.4673523,8.765564)
```

```
16.2329163
```

[6]:
```
def add1(n):
    add=0
    for x in n:
        add=add+x
    print("addition of list",add)
```

[7]:
```
l=[6.7,9.5,3.9,38,46,94,39,1,7]
add1(l)
```

```
addition of list 245.1
```

1 create a function which calculates area of triangle.

2 Create a function which calculate the factorial of given number using a function

[8]:
```
def fact(n):
    if(n==1):
        return n
    else:
        return n*fact(n-1)
```

[9]:
```
fact(9)
```

[9]: 362880

[13]:
```
d=int(input("Enter value:"))
if(d==0):
    print("Factorial of 0 is 1")
elif(d<0):
    print("please enter positive number as factorial does not exist of negative␣
 ↪number")
else:
    print("Factorial of",d,"is",fact(d))
```

```
Enter value:9
Factorial of 9 is 362880
```

3 0,1,1,2,3,5,8,13,.....

[14]:
```
def fibb(n):
    if(n<=1):
        return n
    else:
        return (fibb(n-1)+fibb(n-2))
```

[15]:
```
b=int(input("enter value"))
if(b<=0):
    print("please enetr positive value")
else:
    print("fibbonacci series of", b)
    for x in range(b):
        print(fibb(x))
```

```
enter value15
fibbonacci series of 15
0
1
1
2
3
5
8
13
21
34
55
89
144
```

233
377

4 SWAP 2 int numbers using function

5 Create a function which returns square of the number

[2]:
```
def fact(n):
    if(n<0):
        print("Please enter positive number as factorial does not exist for␣
 ↪negative number")
    elif(n==0):
        print("factorial of 0 is 1")
    elif(n==1):
        return n
    else:
        return n*fact(n-1)
```

[3]:
```
fact(5)
```

[3]: 120

[20]:
```
def fibb(n):
    if(n<=1):
        return n
    else:
        print("fibbonacci series of",n,"is")
        for x in n:
            print(x)
            return (fibb(x-1)+fibb(x-2))
```

[ ]:
```

```

[ ]:
```
x="my name is nisha"
if(x)
```