Higher Order Functions

Functions that take a function as an argument or return a function, is called Higher Order Function

```
#Ex 01
#Function as argument
def d1(para1):
  return "D1 Function", para1
def d2():
  return "D2 Function"
x = d1(d2())
print(x)
Output
('D1 Function', 'D2 Function')
#Ex 02
#Function as argument
def d1(para1, para2):
  return "D1 Function", para1, para2
def d2():
  return "D2 Function"
def d3():
  return "D3 Function"
x = d1(d2(),d3())
print(x)
Output
('D1 Function', 'D2 Function', 'D3 Function')
```

```
#Ex 03
# Return a Function Higher Order Function`s
def d1(a,b):
    def d2():
        return a+b
    return d2

x = d1(5,10)
print(x())
# 15
```

```
#Ex 04
# Return a Function Higher Order Function`s

def d1(a):
    def d2(b):
        return a+b
        return d2

d = d1(5)
print(d(10)) # 15
```