Assignment No:15

Q.1 Create a class Book with members as bid,bname,price and author.Add following methods:

a. Constructor (Support both parameterized and parameterless)

b. Destructor

c. ShowBook

OUTPUT:

```
#1. Create a class Book with members as bid,bname,price and author.Add following
methods:
#a. Constructor (Support both parameterized and parameterless)
#b. Destructor
#c. ShowBook

class Book:
    def __init__(self,bid,bname,price,author):
        self.book_id=bid
        self.book_nm=bname
        self.price=price
        self.author=author

    def showBook(self):
        print("Book id:",self.book_id)
        print("Book Name:",self.book_nm)
        print("Price:",self.price)
        print("Author:",self.author)

    def __del__(self):
        print("Destructor is called:")

b1=Book(101,"Wings of Fire", 500,"Abdul Kalam")
b2=Book(102,"Man mai hai vishwas",300,"Vishwas Nangre Patil")
b3=Book(103,"Sham's Mother",350,"Sane Guruji")

#b1.showBook()
#b2.showBook()
b3.showBook()

del b1
del b2
```

Q.2 Create a class Product with members as pid,pname,price and quantity .Add following methods:

d. Constructor (Support both parameterized and parameterless)

e. Destructor

f. ShowProduct

OUTPUT:
#2. Create a class Product with members as pid,pname,price and quantity .Add following methods:
#d. Constructor (Support both parameterized and parameterless)
#e. Destructor
#f. ShowProduct

```python
class Product:
    def __init__(self,pid,pname,price,quantity):
        self.prod_id=pid
        self.prod_nm=pname
        self.price=price
        self.quantity=quantity

    def showProduct(self):
        print("Product id:",self.prod_id)
        print("Product Name:",self.prod_nm)
        print("Price:",self.price)
        print("quantity:",self.quantity)

    def __del__(self):
        print("Destructor is called:")

p1=Product(201,"SchoolBag", 500,1)
print("#######################")
p2=Product(202,"Waterbottle",200,1)
print("#######################")
p3=Product(203,"Notebooks",1000,5)

#p1.showProduct()
p2.showProduct()
#p3.showProduct()

del p1
del p3
```

Q.3.Create a class Shirt with members as sid,sname,type(formal etc), price and size(small,large etc) .Add following methods:

g. Constructor (Support both parameterized and parameterless)

h. Destructor

i. ShowShirt

OUTPUT:
#3. Create a class Shirt with members as sid,sname,type(formal etc), price and size(small,large etc) .Add following methods:
#g. Constructor (Support both parameterized and parameterless)
#h. Destructor
#i. ShowShirt

```python
class Shirt:
    def __init__(self,sid,sname,type,price,size):
        self.shirt_id=sid
        self.shirt_nm=sname
        self.type=type
        self.price=price
        self.size=size

    def showShirt(self):
        print("Shirt id:",self.shirt_id)
        print("Shirt Name:",self.shirt_nm)
        print("Shirt Type:",self.type)
        print("Price:",self.price)
        print("size:",self.size)

    def __del__(self):
        print("Destructor is called:")

s1=Shirt(301,"t-shirt","V-neck", 500,"medium")
s2=Shirt(302,"Denim shirt","casual",800,"small")
s3=Shirt(303,"Line shirt","Casual",900,"large")

#s1.showShirt()
s2.showShirt()
s3.showShirt()

del s1
```