

Lab manual OOP2

#Example: Create a Constructor in Python

```
'''class Student:

    # constructor
    # initialize instance variable
    def __init__(self, name):
        print('Inside Constructor')
        self.name = name
        print('All variables initialized')

    # instance Method
    def show(self):
        print('Hello, my name is', self.name)

# create object using constructor
s1 = Student('Emma')
s1.show()

s2 = Student('Charlse')
s2.show()'''
```

#Default constructor

```
'''class Employee:

    def display(self):
        print('Inside Display without given constructor')

emp = Employee()
emp.display()'''
```

#Non-Parametrized Constructor

```
'''class Company:

    # no-argument constructor
    def __init__(self):
        self.name = "Scotland Academy"
        self.address = "Wuxi Street"

    # a method for printing data members
    def show(self):
        print('Name:', self.name, 'Address:', self.address)

# creating object of the class
cmp = Company()

# calling the instance method using the object
```

```
cmp.show()

cmp1 = Company()

# calling the instance method using the object
cmp1.show()

cmp2 = Company()

# calling the instance method using the object
cmp2.show()'''

#Parametrized Constructor
class Employee:
    # parameterized constructor
    def __init__(self, name, age, salary):
        self.name = name
        self.age = age
        self.salary = salary

    # display object
    def show(self):
        print(self.name, self.age, self.salary)

# creating object of the Employee class
emma = Employee('Emma', 23, 7500)
emma.show()

kelly = Employee('Kelly', 25, 8500)
kelly.show()

David = Employee('david', 33, 8000)
David.show()

Henry = Employee('Henry', 35, 9000)
Henry.show()
```