### **#Loading External Files into RDD**

```
products=sc.textFile("file:///home/hadoop/product.csv")
products.foreach(print)
```

#### **#Loading Constant Data in RDD**

```
customers_list=["Ankit Verma","Sunil Sharma","Pankaj Verma"]
customers.parallelize(customers_list)
products.foreach(print)
```

RDD Transform/Action Functions

# 1. map(function)

```
def increment(x):
    x=x+1
    return x

numbers = sc.parallelize(range(1,11))
new_numbers = numbers.map(increment)
new_numbers.collect()
```

#### **#Lambda Function**

```
Syntax=> lambda arguments : expression
Example=> lambda x : x+1

new_numbers = numbers.map(lambda x:x*10)
new_numbers.collect()
```

```
products=sc.textFile("file:///home/hadoop/product.csv")
products=products.map(lambda x : x.split(,))
new_products=products.map(lambda x : float(x[4])+((float(x[4])*.05))
new_products.foreach(print)
```

```
def PriceHike(x):
    record=x.split(",")
    record[4]=float(record[4])+(float(record[4])*.05)
    return str(record)

products=sc.textFile("file:///home/hadoop/product.csv")
new_products=products.map(PriceHike)
new_products.foreach(print)
```

# 2. filter(function)

```
numbers=sc.parallelize(range(1,101))
f1 = numbers.filter(lambda x:x>50)
f1.collect()
```

```
products=sc.textFile("file:///home/hadoop/product.csv")
products=products.map(lambda x : x.split(","))
fl=products.filter(lambda x : float(x[4])>50000)
fl.foreach(print)
```

### 3. reduce(function)

```
numbers=sc.parallelize(range(1,11))
result=numbers.reduce(lambda x,y:x+y)
print(result) #55
```

### 4. foreach(function)

```
numbers=sc.parallelize(range(1,11))
numbers.foreach(print)
```

#### 5. first(function)

```
numbers=sc.parallelize(range(1,11))
numbers.first()
```

# 6. take(n)

```
numbers=sc.parallelize(range(1,11))
numbers.take(5)
```

# 7. collect()

```
numbers=sc.parallelize(range(1,11))
numbers.collect()
```

# 8. count()

```
numbers=sc.parallelize(range(1,11))
numbers.count()
```