Lab - 29.1.2018

1. Custom Partitioning

An organization maintains the salary details that contains years of experience, salary, gender and country name. Partition the file based on the salary. Create 3 partitions with salary <30000, salary <50000 and salary details other than the above two conditions. Write the country name and the salary details in the files.

Note

- 1. Create a map class. Write the country name and the salary.
- 2. Create the partitioner class as below:

("nr" is user defined variable name, which receives from number of reducers to create the partitions)

```
public static class dpart extends Partitioner<Text,IntWritable>
{
    public int getPartition(Text key,IntWritable value,int nr)
    {
        if(value.get()<30000)
            return 0;
        if(value.get() < 50000)
            return 1;
        else
            return 2;
        } }</pre>
```

3. Create the reducer and write the contents

```
context.write(key, value);
```

4. In the driver include the following with the other details:

```
job.setPartitionerClass(dpart.class);
job.setNumReduceTasks(3);
```

2. Number of mappers-split function

An organization maintains the salary details that contains years of experience, salary, gender and country name. Write the country name and the salary details in hdfs.

```
A) User defined number of mappers
conf.set("mapred.min.split.size","10000");
```

B) If the whole file have to run in one mapper: include the following class.

```
return false;
}

Include the below in driver(main)
job.setInputFormatClass(splitfalse.class);
```