

# LARGE SCALE DATA PROCESSING (CSE 3025)

## WIN SEMESTER 2017-18

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### LAB-8

1. Create a text file for students details(student id,student name,marks-5 courses) in HDFS. Get a particular student details using side data configuration.

Note

Mapper

--

String name1;

name1 = context.getConfiguration().get("name");

---

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Driver

....

conf.set("name",args[2]);

..

Execution

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```
hadoop jar lab8.jar lab8_map_join bernice /user/lab8/student  
/user/lab8/Output_map_join
```

### **PROGRAM:**

```
import java.io.IOException;  
import java.util.*;  
import org.apache.hadoop.fs.Path;  
import org.apache.hadoop.conf.*;  
import org.apache.hadoop.io.*;  
import org.apache.hadoop.mapreduce.*;  
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;  
import org.apache.hadoop.mapreduce.lib.input.TextInputFormat;  
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;  
import org.apache.hadoop.mapreduce.lib.output.TextOutputFormat;  
public class lab8_map_join {  
  
    public static class Map extends Mapper<LongWritable, Text, Text, Text> {  
        //Mapper  
  
        public void map(LongWritable key, Text value, Context context) throws  
        IOException, InterruptedException {  
  
            String name1;  
  
            name1 = context.getConfiguration().get("name");  
  
            String[] line = value.toString().split(",");  
  
            if(line[1].equalsIgnoreCase(name1))  
  
            {
```

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```
        context.write(new Text(line[1]),new Text("Student_id= "+line[0]+","+"Marks= "+line[2]+","+"line[3]+","+"line[4]+","+"line[5]+","+"line[6]));
    }
}
}
```

```
public static void main(String[] args) throws Exception { //Driver
```

```
    Configuration conf = new Configuration();
    conf.set("name",args[0]);
    Job job = new Job(conf, "map_side_join");
    job.setJarByClass(lab8_map_join.class);
    job.setOutputKeyClass(Text.class);
    job.setOutputValueClass(Text.class);
    job.setMapperClass(Map.class);
    job.setNumReduceTasks(0);
    job.setInputFormatClass(TextInputFormat.class);
    job.setOutputFormatClass(TextOutputFormat.class);
    FileInputFormat.addInputPath(job, new Path(args[1]));
    FileOutputFormat.setOutputPath(job, new Path(args[2]));
    job.waitForCompletion(true);
}
}
```

**OUTPUT:**

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