**ASS-21.2**

**Explain the different methods of**

**● Mapper class**

**1. setup() method:**

Called once at the beginning of the task.

**Definition:**

protected void setup(org.apache.hadoop.mapreduce.Mapper.Context context)

throws IOException, InterruptedException

**2. map() method**:

Called once for each key/value pair in the input split. Most applications should override this, but the default is the identity function.

Definition:

protected void map(KEYIN key,VALUEIN value,

org.apache.hadoop.mapreduce.Mapper.Context context)

throws IOException, InterruptedException

**3. cleanup() method:**

Called once at the end of the task.

Definition:

protected void cleanup(org.apache.hadoop.mapreduce.Mapper.Context context)

throws IOException,InterruptedException

**4. run() method:**

Expert users can override this method for more complete control over the execution of the Mapper.

**Definition:**

public void run(org.apache.hadoop.mapreduce.Mapper.Context context)

throws IOException,InterruptedException

**● Reducer class**

1. setup() method:

Called once at the start of the task

Definition:

protected void setup(org.apache.hadoop.mapreduce.Reducer.Context context)

throws IOException,InterruptedException

**2.Reduce() method:**

This method is called once for each key. Most applications will define their reduce class by overriding this method. The default implementation is an identity function.

**Definition:**

protected void reduce(KEYIN key, Iterable<VALUEIN> values,

org.apache.hadoop.mapreduce.Reducer.Context context)

throws IOException,InterruptedException

**3.cleanup() method:**

Called once at the end of the task.

**Definition:**

protected void cleanup(org.apache.hadoop.mapreduce.Reducer.Context context)

throws IOException,InterruptedException

**4.run() method:**

Advanced application writers can use the run(org.apache.hadoop.mapreduce.Reducer.Context) method to control how the reduce task works.

**Definition:**

public void run(org.apache.hadoop.mapreduce.Reducer.Context context)

throws IOException,InterruptedException