

1. Input parameters for the mapper function are:

Key_value pair- <record_no,record>

Here, record is a data without any delimiter which contains several information like year,temperature,etc.

Purpose or record_no is just for feeding in different records to the mapper function.

Output parameters for the mapper function are:

Key_value pair-<year,temperature>

The mapper function extracts the substring from the record which corresponds to the year and temperature which meets the specified requirements and gives it as the output.

Input parameters for reducer function are:

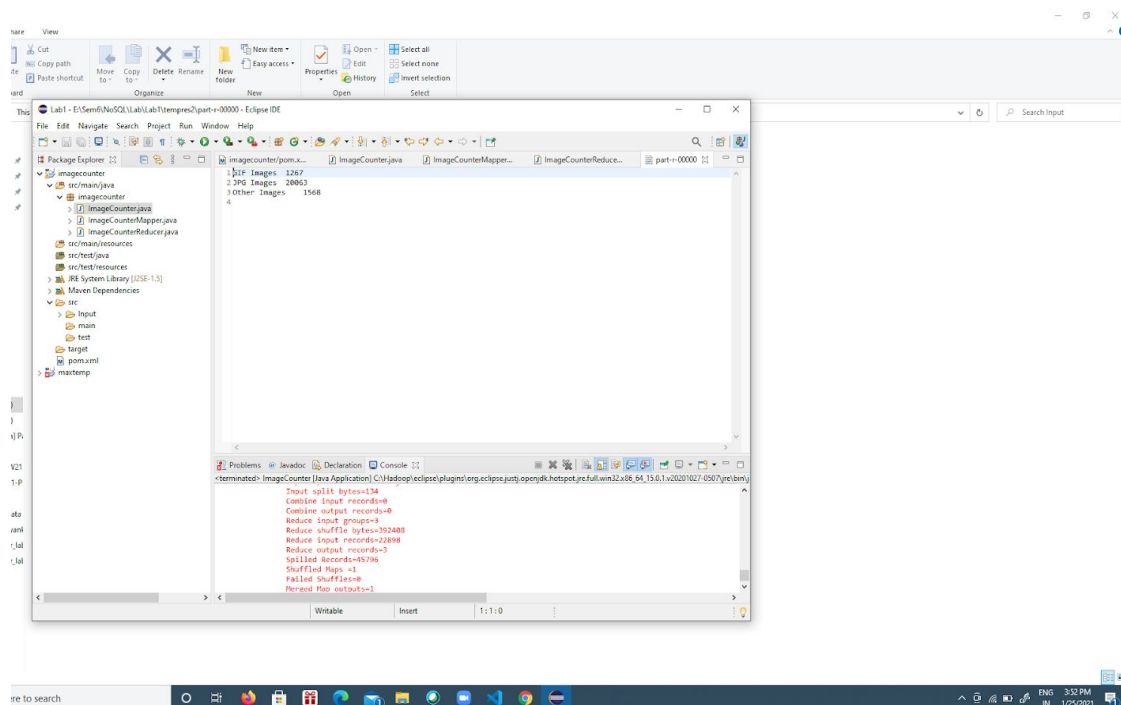
Key_value pair-<year,list of temperatures>

The reducer receives temperatures corresponding to a certain key value.

Output parameters for the reducer function are:

Key_value pair-<year,max(temperature)>

The reducer function outputs the maximum temperature corresponding to a year.



2. Input parameters for the mapper function are:

Key_value pair- <record_number,record>

Here, record is a data without any delimiter which contains several information like year,temperature,etc.

Purpose or record_no is just for feeding in different records to the mapper function.

Output parameters for the mapper function are:

Key_value pair-<GIF/JPG/Other Images,1>

Here the mapper function outputs 1 value corresponding to a key indicating that there exists an image of that kind.

Input parameters for reducer function are:

key_value pair-<Image type,<1,1,1,1,...>>.

Here the reducer receives as input the list of numbers for a particular kind of an image.

Output parameters for the reducer function are:

Key_value pair-<image type,count of that type of image>

Here the reducer then computes the sum from the list which was fed in as input to reducer function and outputs the number of images of that type of image.