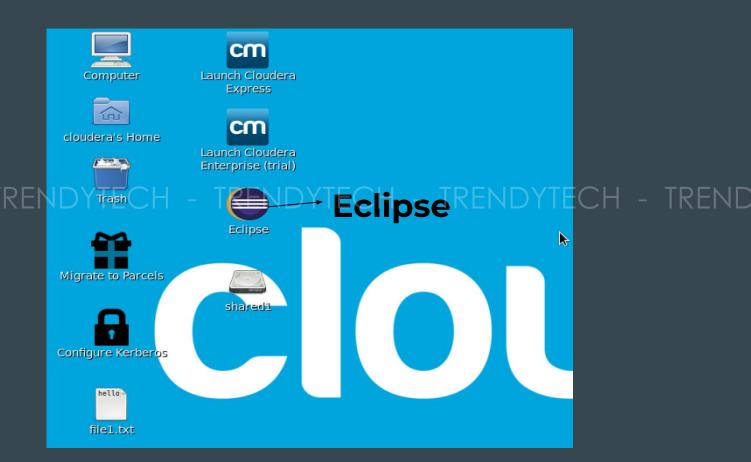


## Running Mapreduce Program

MR Practical

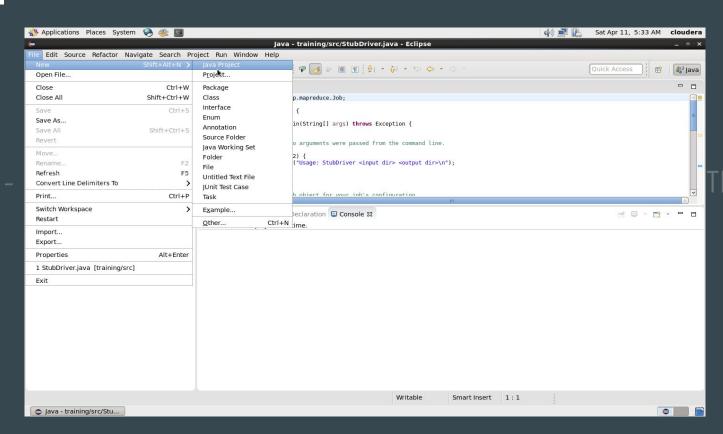


### **Eclipse is Present on Cloudera Desktop**



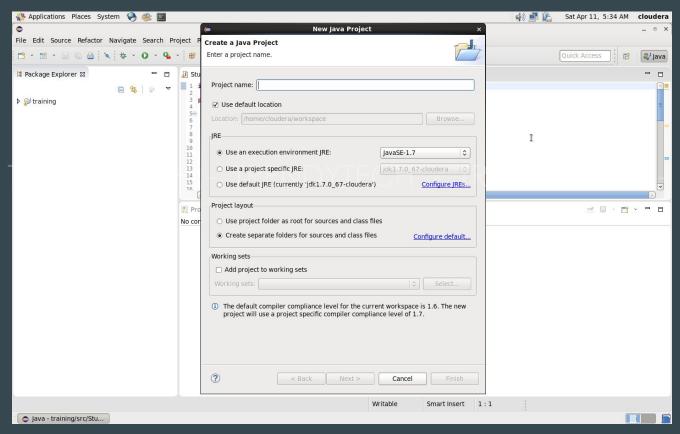


### Create a new Java Project





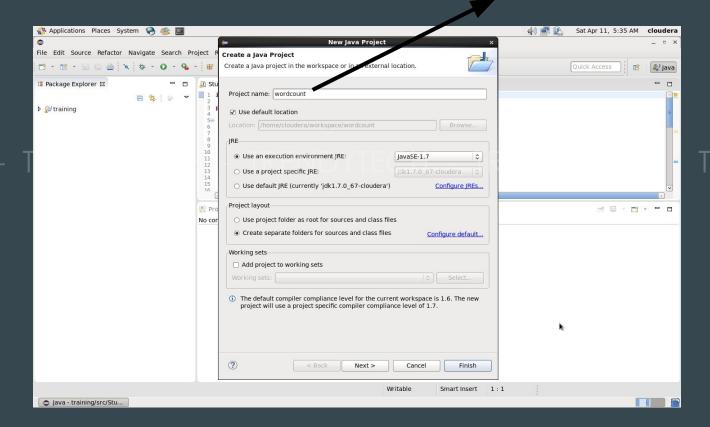
### Give your project name



TRENDYTE

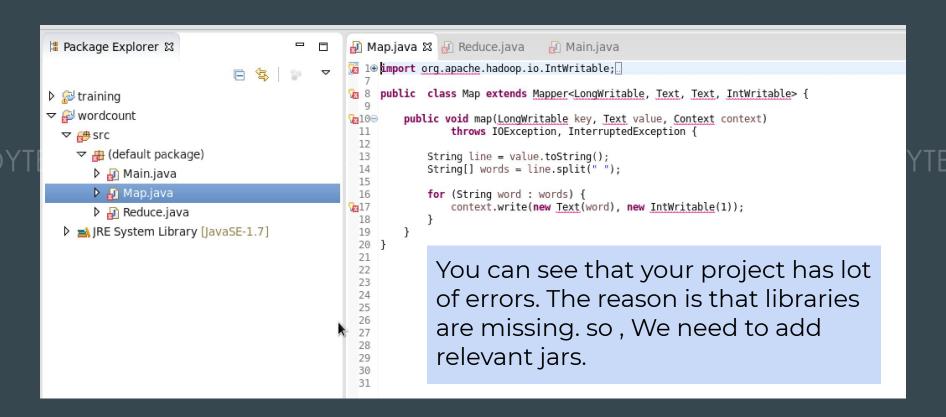


### I gave wordcount as project name



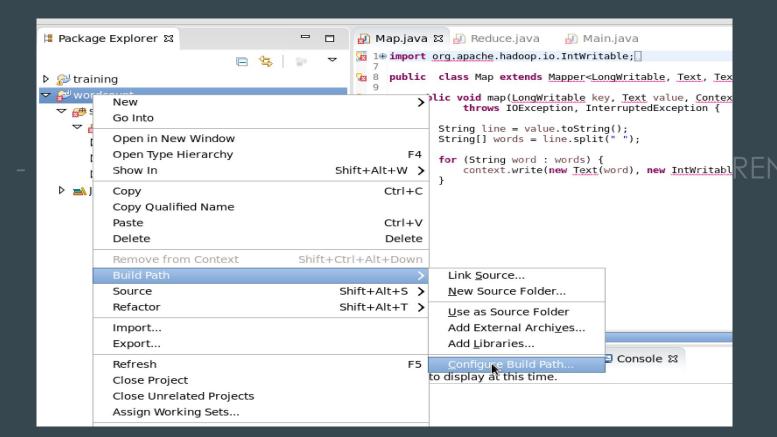


### Copy all the 3 files in src folder



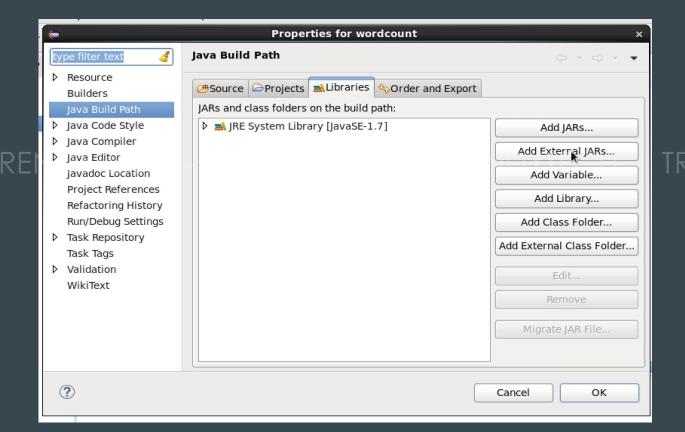


### Adding the relevant Jars to resolve errors



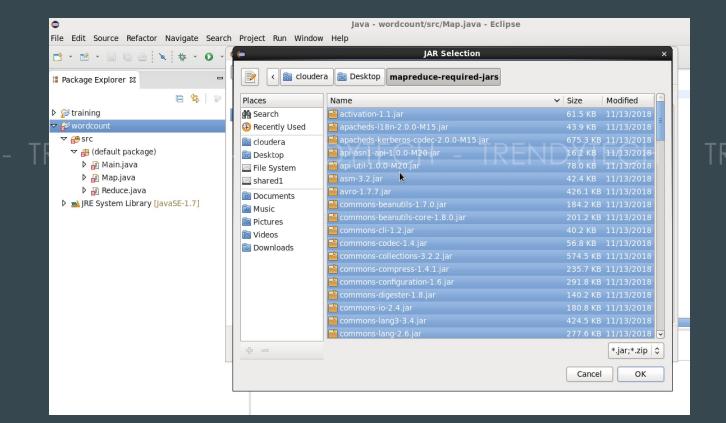


#### Click on Add External Jars under Libraries



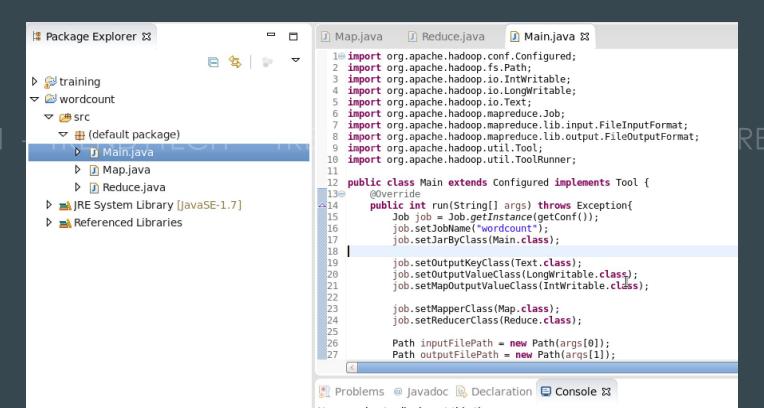


### Select all the jars from the jars that are given





# Once all relevant jars are added then all errors will go away





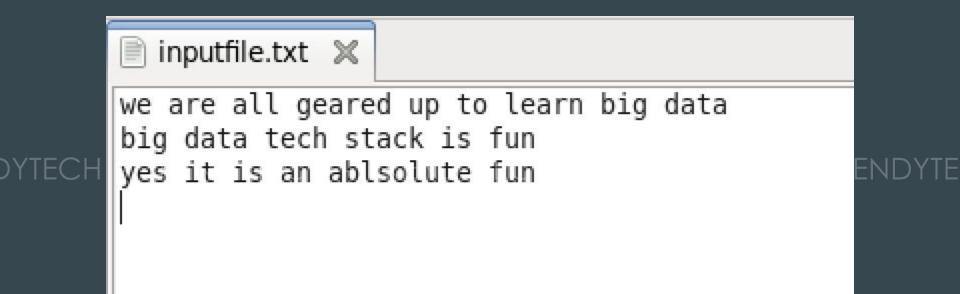
### Now we need to create a input file with some content

```
[cloudera@quickstart ~]$
[cloudera@quickstart ~]$ cd Desktop/
[cloudera@quickstart Desktop]$ mkdir inputfolder
[cloudera@quickstart Desktop]$ cd inputfolder
[cloudera@quickstart inputfolder]$ gedit inputfile.txt
```

Open terminal -> navigate to Desktop -> create a new directory -> inside new directory create a file using gedit.



#### Have some content in file



Make sure some words repeat so that you can visualize the results well.

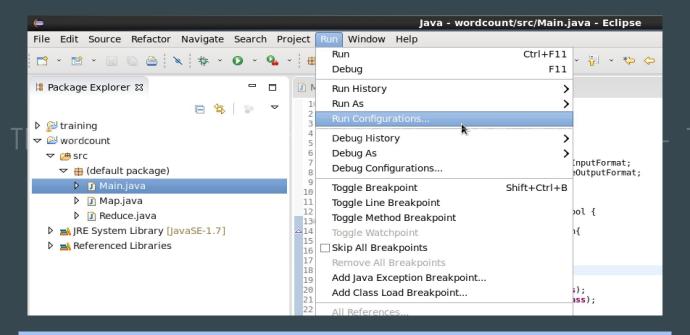


## Get the complete input file path using pwd command in terminal

```
[cloudera@quickstart ~]$
[cloudera@quickstart ~]$ cd Desktop/
[cloudera@quickstart Desktop]$ mkdir inputfolder
[cloudera@quickstart Desktop]$ cd inputfolder
[cloudera@quickstart inputfolder]$ gedit inputfi_le.txt
[cloudera@quickstart inputfolder]$ pwd
/home/cloudera/Desktop/inputfolder
[cloudera@quickstart inputfolder]$
```



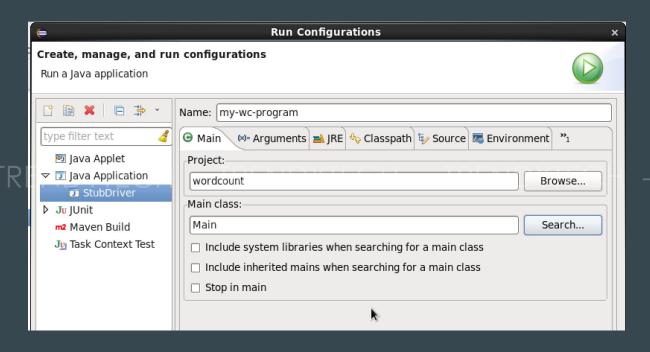
## Now time to set the arguments and Run the project



Click on Run -> Run Configurations



### **Setting up Run Configurations**

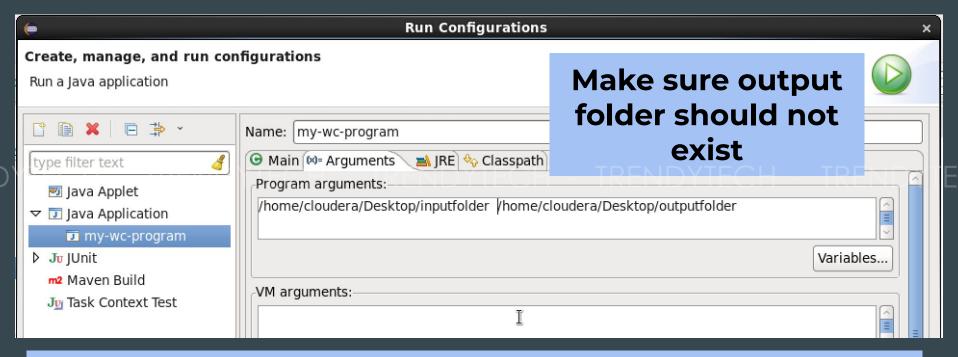


Give your configuration a Name.

Also set your project name & Main class



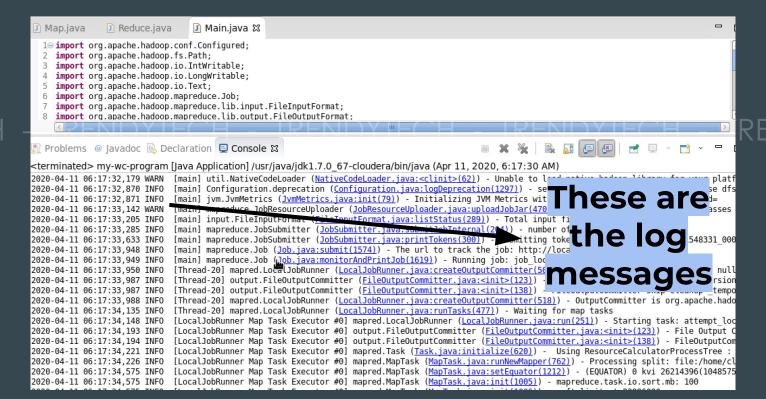
### Setting up the runtime arguments and run it



We need to give 2 parameters separated by space. 1st one is input folder path & second is output folder path.

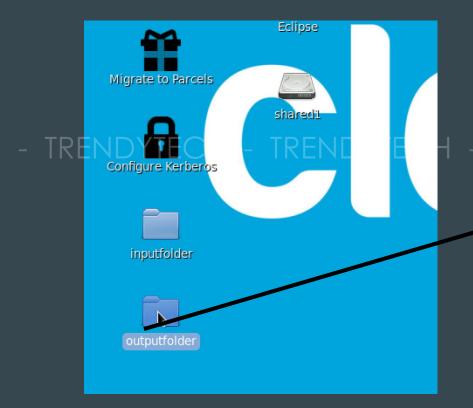


# Just check that there should not be any error messages in the logs





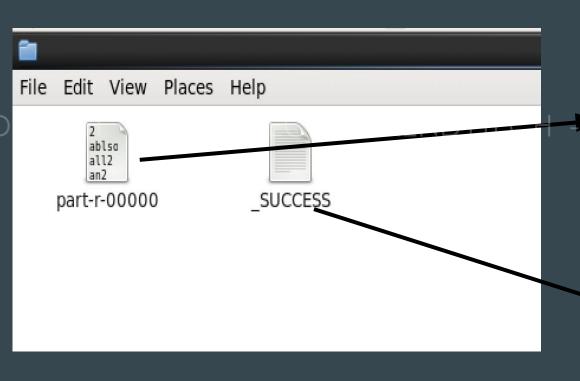
## If the MR job is successful, a new output folder should be created



You can see
TRENTHE new TRENDYTE
output
folder is
created.



### See the files in output folder

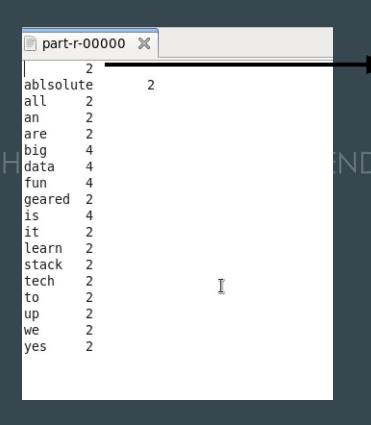


Since we used one reducer there should be one part file.

\_SUCCESS indicated job is successful



### See the content of output file



You can see empty space is also treated as word. Because if we give 2 spaces consecutively. The second space is treated as word.

The output is in ascending order of the words (keys)



## You can check the output through terminal also using linux commands

```
[cloudera@quickstart ~]$
 [cloudera@quickstart ~]$ cd Desktop/
 [cloudera@quickstart Desktop]$ mkdir inputfolder
 [cloudera@quickstart Desktop]$ cd inputfolder
 [cloudera@quickstart inputfolder]$ gedit inputfile.txt
[cloudera@quickstart inputfolder]$ pwd
 /home/cloudera/Desktop/inputfolder
 [cloudera@quickstart inputfolder]$ cd ..
 [cloudera@quickstart Desktop]$ cd outputfolder/
 [cloudera@guickstart outputfolder]$ ls -ltr
 total 4
 -rw-r--r-- 1 cloudera cloudera 114 Apr 11 06:17 part-r-00000
 -rw-r--r-- 1 cloudera cloudera 0 Apr 11 06:17 SUCCESS
 [cloudera@quickstart outputfolder]$
```



### cat command to see the output content

	[cloude	ra@quicks	start	outpu <sup>-</sup>	tfolder]	\$ C	at	part-r-	00000
		2							
7	ablsolut	te	2						
	all	2							
	an	2							
	are	2							
	big	4							
	data	4							
	fun	4							
	geared	2							
	is	4							
	it	2							
	learn	2							
	stack	2							
	tech	2							
	to	2							
	up	2							
	we	2							
	yes	2							
	ŕ , ,					<b>_</b>			



OYTECH We have successfully executed a mapreduce program YTE

Happy Learning!!!



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