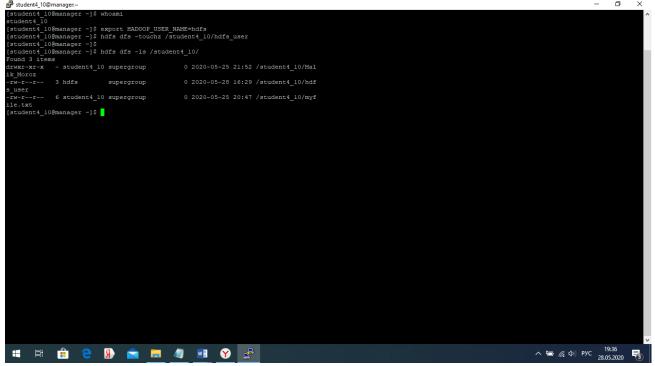
0. [Исследовательское задание]

Как получить доступ под пользователем hdfs в файловую систему не имея sudo? Если до воскресенья никто не расскажет -- будет подсказка.

Создам переменную

- export HADOOP_USER_NAME = HDFS
- Вовремя создание нового файла в папке student4_10 с моей аутентификацией будет создан файл hdfs user под авторизацией hdfs благодаря выше указанной команде!

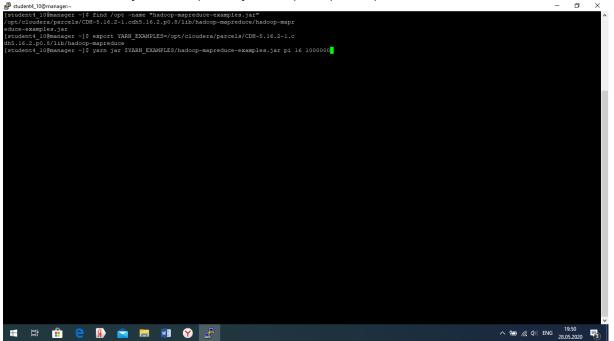


- 1. Опробовать запуски map-reduce задач для кластера используя hadoop-mapreduce-examples.jar.
- а. Выполнить три любых задачи включенных в этот JAR.
- б. Найти свои задачи в интерфейсе Cloudera Manager
- в. Опробовать навигацию по интерфейсу YARN

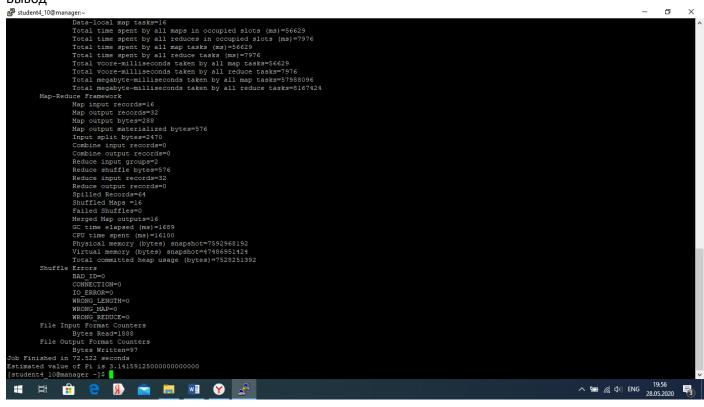
найдем jar file

find /some_directory -name some_file_name

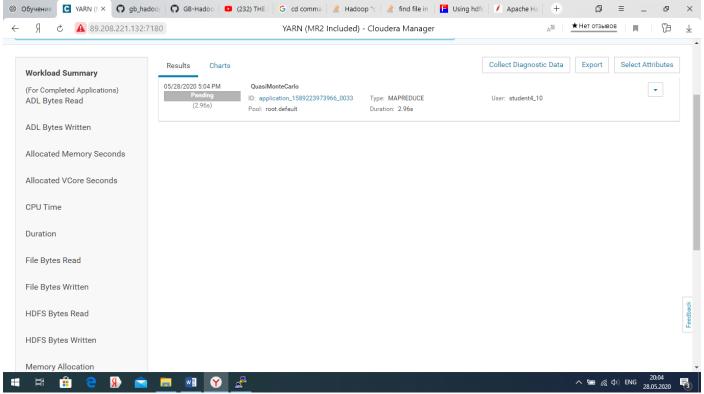
- Находим файк Hadoop-mapreduce через find
- Создаем переменную YARN_EXAMPLES
- И потом запускаем переменную с параметрами рі 16 1000000



Вывод

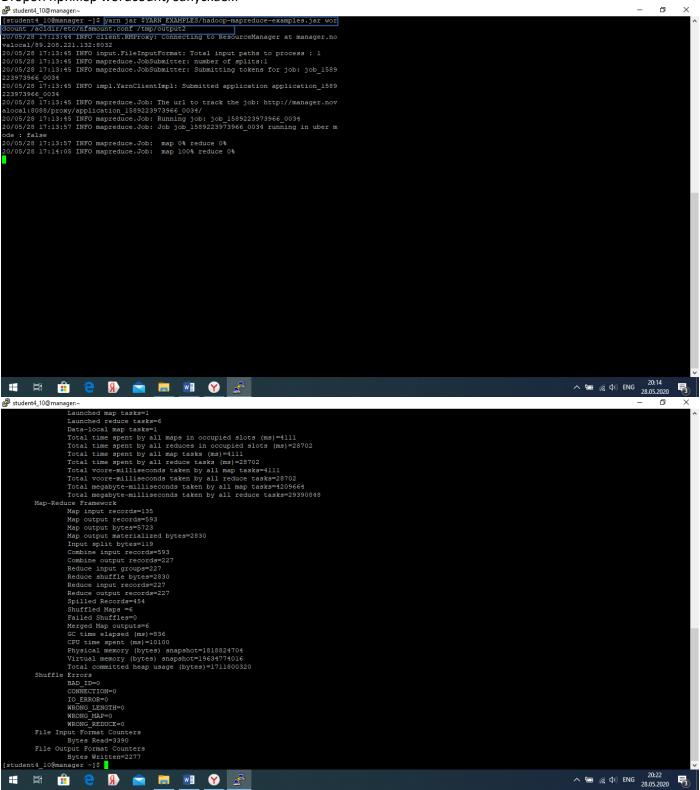


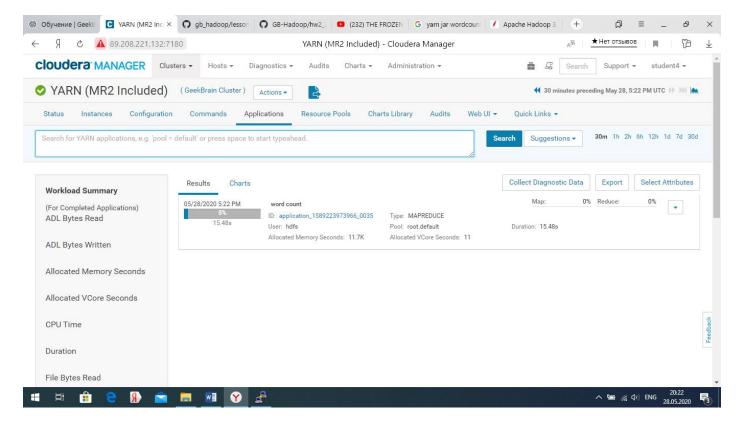
Cloudera Applications



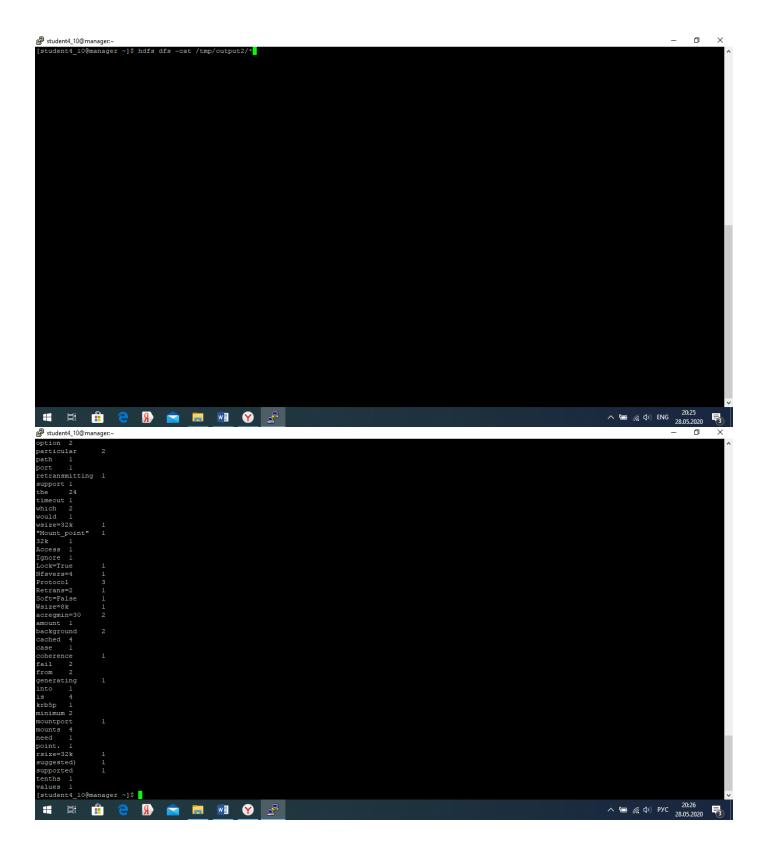
Работа в Cloudera

Второй пример wordcount, запускаем





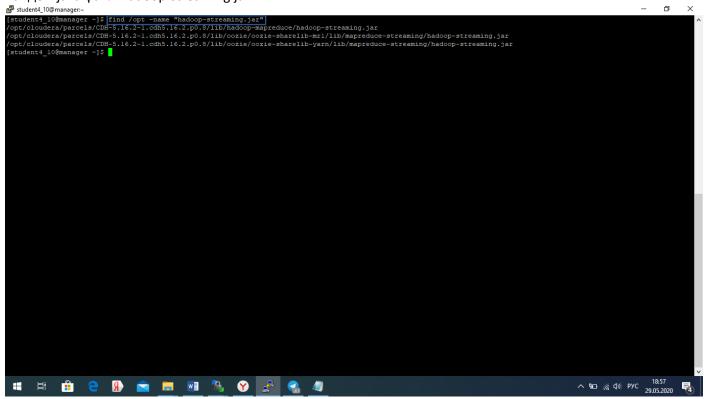
Посмотрим что внутри файла



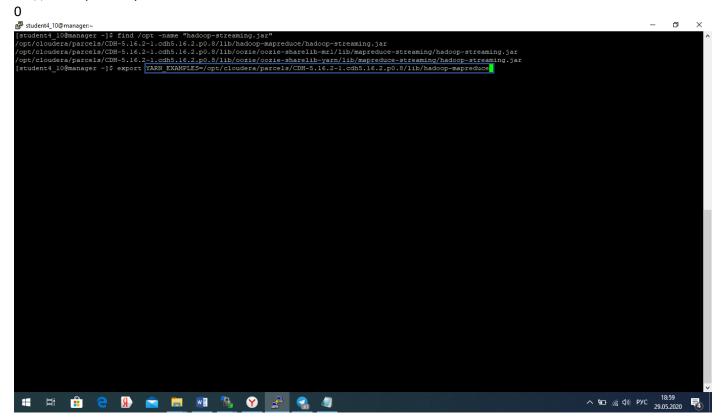
3. [Факультативное, для тех кто знает JAVA] Собрать программу для MR на Java и запустить ее. Wordcount будет вполне достаточен.

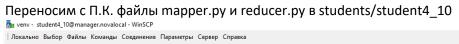
С java не знаком, по этому не получилось.

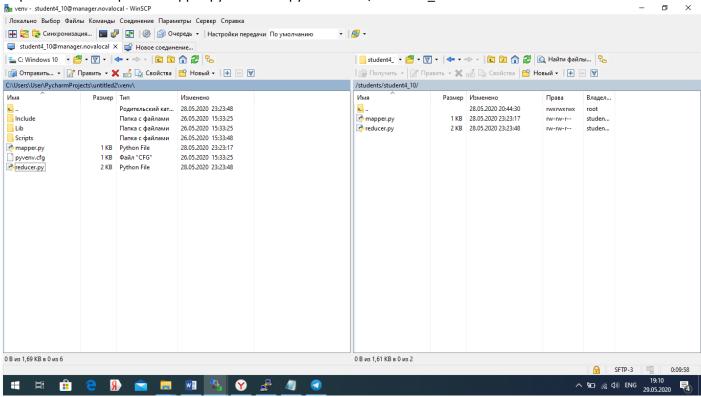
найдем java файл Hadoop-streaming.jar



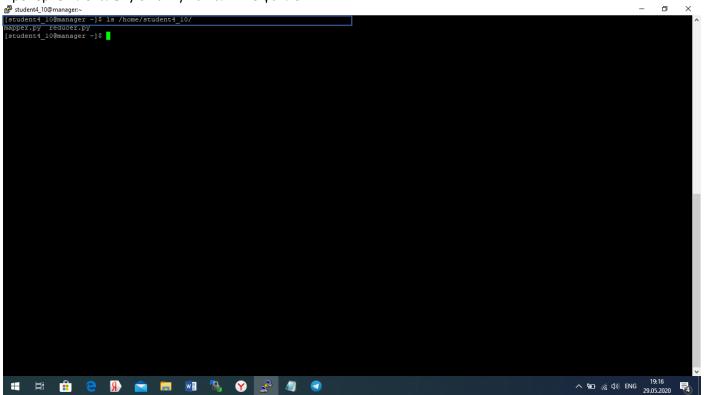
создаём переменную







Проверяем локальную папку на наличие файлов



Проверяем внутренность файлов

Reducer.py

```
## todored_10@manager =10 is /home/students_10/
[Fribaths_10@manager =10 is /home/students_10/
[Fribaths_10@manager =10 est /home/students_10/reducer.py

##/dar/plan/env python

from operator import itempetter
import sys

current_word = None

current_count = 0

word = Rone

## input comes from STDIN

for line in sys.actin:

# remove leading and trailing whitespace

line = line.strip()

# parse the input we got from mapper.py

word, count = line.equip('\t', ')

# convert count (currently a string) to int

try;

# convert count (currently a string) to int

try;

# count was not a number, so silently

# input deferous

# count was not a number, so silently

# input deferous

# put (business)

# this | Trysitch only works because Hadoop sorts map cutput

# put (business)

# this | Trysitch only works because Hadoop sorts map cutput

# put (business)

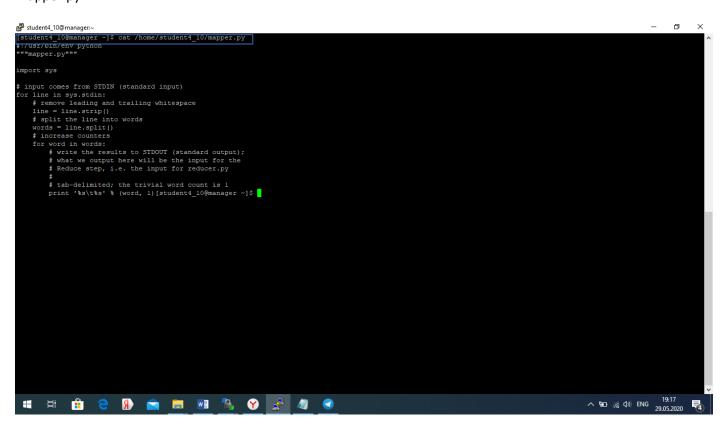
# this | Trysitch only works because Hadoop sorts map cutput

# put (business)

# word = word

| current_word = word|
| current_word = word|
| fut current_word =
```

Mapper.py



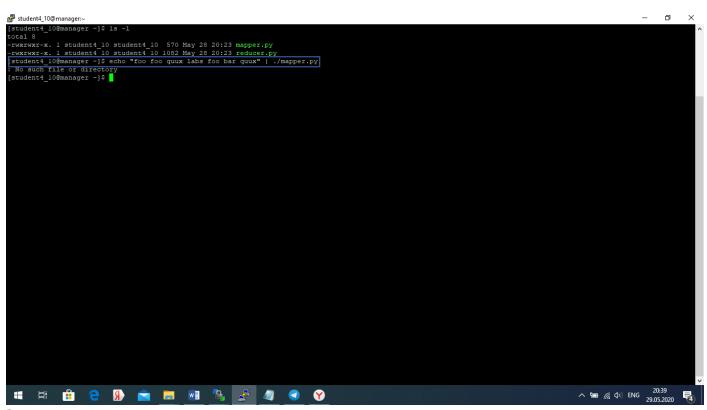
Add permissions x (execution) and check permissions

Добавляем разрешение с правом на x (execution) и проверяем на наличии этих прав

```
### Particles | Michigan | 15 la / Nome / student | 10 / Reper . py | reducer . p
```

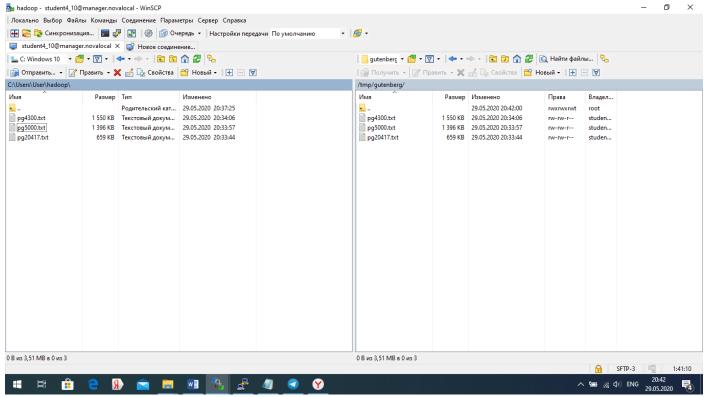
Вопрос

Почему мы надо запускать mapper и reducer с LOCAL а не с HDFS как например текстовые файлы e-books

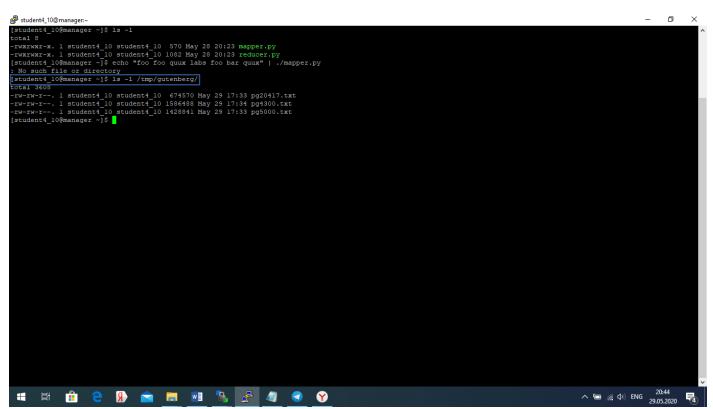


Вопрос

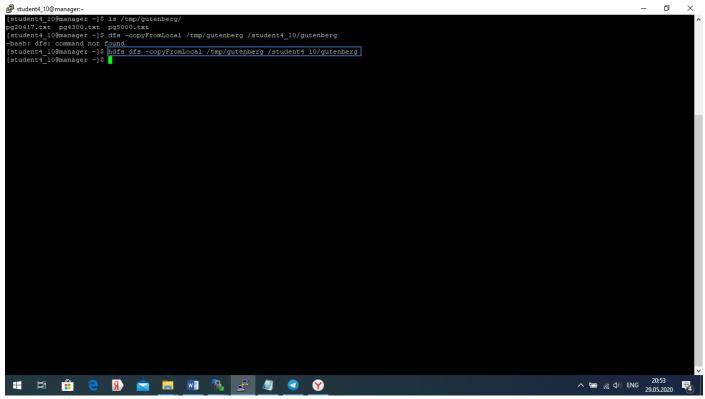
Не работает ЕСНО?



скачал e-books files и переносим эти text files в tmp/Gutenberg



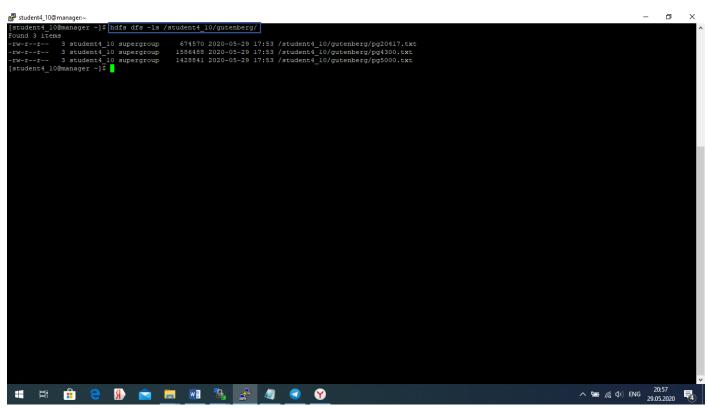
проверяем текс файлы в putty



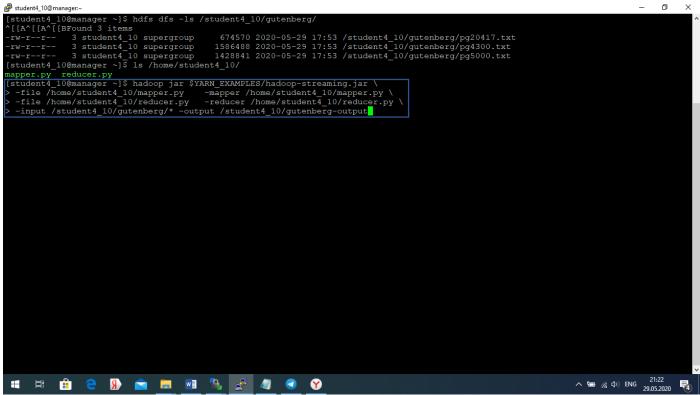
CopyFromLocal Text files into HDFS

Question

- Почему в примере Американцы не пишут HDFS
- Почему mapper.py и reducer.py мы оставили в локальной папке а вот e-books files перенесли в HDFS, почему не перенести все в HDFS или же оставить на локальном уровне.



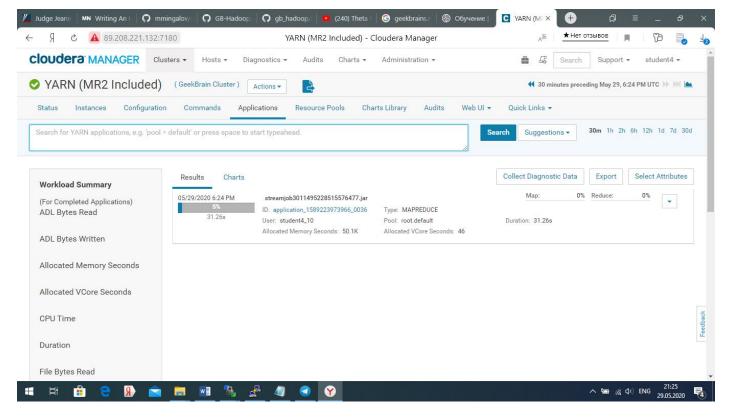
проверяем что все есть в HDFS



Запускаем jar файл

Question

- Почему ошибка



пишет что была ошибка

```
### Indentifications of the control of the control
```

₽ student4_10@manager.~ — □ ×

```
20/05/29 18:24:55 INFO mapreduce.Job: Task Id : attempt_1589223973966_0036_m_000000_0, Status : FAILED Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127 at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325) at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:538) at org.apache.hadoop.streaming.PipeMapPer.close(PipeMapPer.java:130) at org.apache.hadoop.streaming.PipeMapPer.close(PipeMapPer.java:61) at org.apache.hadoop.streaming.PipeMapPer.close(PipeMapPer.java:61)
                                     at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:161)
at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34)
at org.apache.hadoop.mapred.MapTask.runoldMapper(MapTask.java:459)
at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
at org.apache.hadoop.mapred.Yarnchild$2.run(Yarnchild.java:164)
at java.security.AccessController.doPrivileged(Native Method)
at javax.security.auth.Subject.doAs(Subject.java:422)
at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1924)
at org.apache.hadoop.mapred.YarnChild.main(YarnChild.java:158)
20/05/29 18:24:57 INFO mapreduce.Job: Task Id : attempt 1589223973966 0036 m 000002 0, Status : FAILED Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127 at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:325) at org.apache.hadoop.streaming.PipeMapPer.close(PipeMapRed.java:538) at org.apache.hadoop.streaming.PipeMapPer.close(PipeMapPer.java:130) at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61) at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34) at org.apache.hadoop.mapred.MapTask.run0idMapper (MapTask.java:459) at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343) at org.apache.hadoop.mapred.YarnChild.java:164) at java.security.AccessController.doPrivileged(Native Method) at javas.security.auth.Subject.doAs(Subject.java:422) at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1924) at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1924) at org.apache.hadoop.mapred.YarnChild.main(YarnChild.java:158)
20/05/29 18:25:00 INFO mapreduce.Job: Task Id : attempt_1589223973966_0036_m_000001_1, Status : FAILED Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127 at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325) at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:538) at org.apache.hadoop.streaming.PipeMapper.close(PipeMapRer.java:130) at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61) at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34) at org.apache.hadoop.mapred.MapTask.runoldMapper(MapTask.java:459)
    # # 🔒 🤚 🙀 🙀
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      へ 恒 偏 切) PYC 21:26
29.05.2020
   Student4_10@manager-
10/05/29 18:25:01 INFO mapreduce.Job: Task Id : attempt_1589223973966_0036_m_000000_1, Status : FR
Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127
at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325)
at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:538)
at org.apache.hadoop.streaming.PipeMapper.close(PipeMapper.java:130)
at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61)
at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34)
at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.java:459)
at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
at org.apache.hadoop.mapred.YarnChild$2.run(MapTask.java:164)
at java.security.AccessController.doPrivileged(Native Method)
                                      at org.apacne.nadoop.mapred.rarnchilds2.run(rarnchild.java:164)
at java.security.AccessController.doPrivileged(Native Method)
at javax.security.auth.Subject.doAs(Subject.java:422)
at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1924)
at org.apache.hadoop.mapred.YarnChild.main(YarnChild.java:158)
  20/05/29 18:25:04 INFO mapreduce.Job: Task Id : attempt_1589223973966_0036_m_000002_1, Status : FAILED Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127 at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325)
                                     at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325)
at org.apache.hadoop.streaming.PipeMapRed.mapRedPinishapd(PipeMapRed.java:538)
at org.apache.hadoop.streaming.PipeMapper.close(PipeMapper.java:130)
at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61)
at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34)
at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.java:459)
at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
at org.apache.hadoop.mapred.YarnChild$2.run(YarnChild.java:164)
at java.security.AccessController.doPrivileged(Native Method)
at javax.security.auth.Subject.doAs(Subject.java:422)
at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1924)
at org.apache.hadoop.mapred.YarnChild.main(YarnChild.java:158)
 20/05/29 18:25:06 INFO mapreduce.Job: Task Id : attempt_1589223973966_0036_m_000001_2, Status : FA
Error: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 127
at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:325)
at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:538)
at org.apache.hadoop.streaming.PipeMapper.close(PipeMapper.java:130)
at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61)
                                       at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34) at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.java:459)
                                        at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       へ 🗐 🦟 🕼 PYC 29.05.2020
                  i ei 💼 🧲 🥠 🙍 🥫 🐠 🦠 🕢 🥑 🥎
```

```
Error: java lang RuntimeException: PipeManRed waitOutputThreads(): subprocess failed with code 127
    at org apache hadoop, streaming, PipeManRed waitOutputThreads(PipeManRed java:325)
    at org apache hadoop, streaming, PipeManRed mapRed(Pinished(PipeManRed, java:325)
    at org.apache.hadoop, streaming, PipeManRed mapRed(Pinished(PipeManRed, java:338))
    at org.apache.hadoop, streaming, PipeManRed, mapRed(Pinished(PipeManRed, java:338))
    at org.apache.hadoop, streaming, PipeManRed, mapRed(Pinished(PipeManRed, java:348))
    at org.apache.hadoop, mapred(ManPansk.run(PipeManRunner.java:61)
    at org.apache.hadoop, mapred(ManPansk.run(ManPansk.java:348))
    at org.apache.hadoop, mapred(ManPansk.run(ManPansk.java:348))
    at org.apache.hadoop, mapred(ManPansk.run(ManPansk.java:348))
    at org.apache.hadoop, mapred(ManPansk.run(ManPansk.java:348))
    at org.apache.hadoop, security, Mesercoupinformation.doAs(UserGroupInformation.java:1924)
    at org.apache.hadoop, mapred(VarnChild).apva:158)

20/05/29 18:25:15 1NPO mapreduce.Job: map 100% raduce 100%

20/05/29 18:25:15 1NPO mapreduce.Job: map 100% raduce 100%

20/05/29 18:25:15 1NPO mapreduce.Job: counters: 14

    Job Counters

    Failed map tasks=10

    Killed map tasks=10

    Killed map tasks=10

    Killed reduce tasks=6

    Launched map tasks=10

    Chal time spent by all reduces in occupied slots (ms)=34842

    Total time spent by all maps in occupied slots (ms)=34842

    Total time spent by all maps xisks (ms)=34842

    Total time spent by all maps xisks (ms)=34842

    Total vice-milliseconds taken by all map tasks=35678208

Map-Reduce Frame maps(y) tytes) snapshot=0

    CU time spent (ms)=0

    Physical memory (bytes) snapshot=0

    CU time spent (ms)=0

    Physical memory (bytes) snapshot=0

    CU time spent (ms)=0

    Physical memory (bytes) snapshot=0

    Vice-milliseconds taken by all map tasks=35678208

Map-Reduce Frame (ms)=0

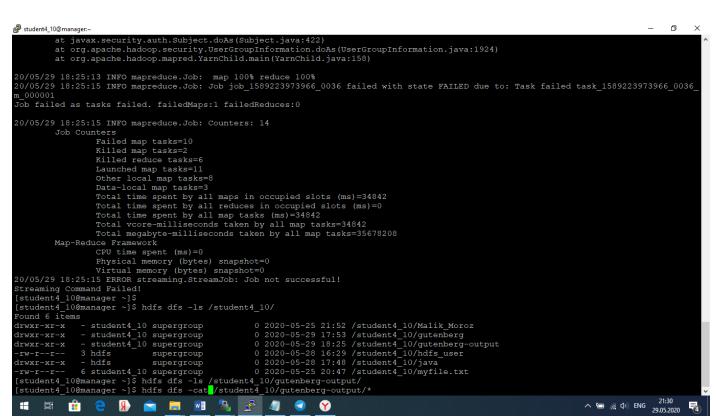
    Physical memory (bytes) snapshot=0

    CU time spent (ms)=0

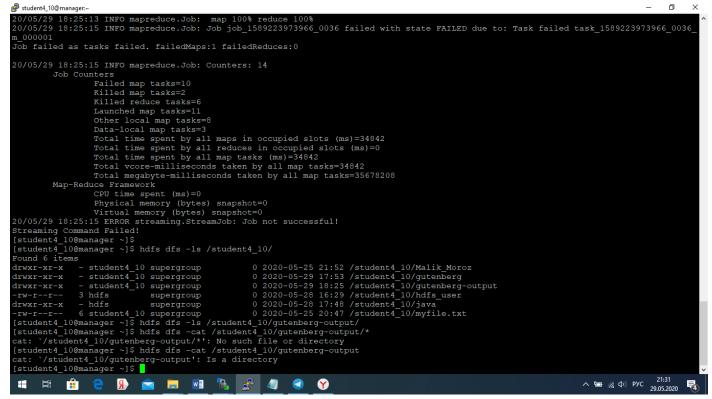
    CU time spent (ms)=0

    C
```

Ничего не получилось ошибка !!!



проверяем что получили



ничего нету