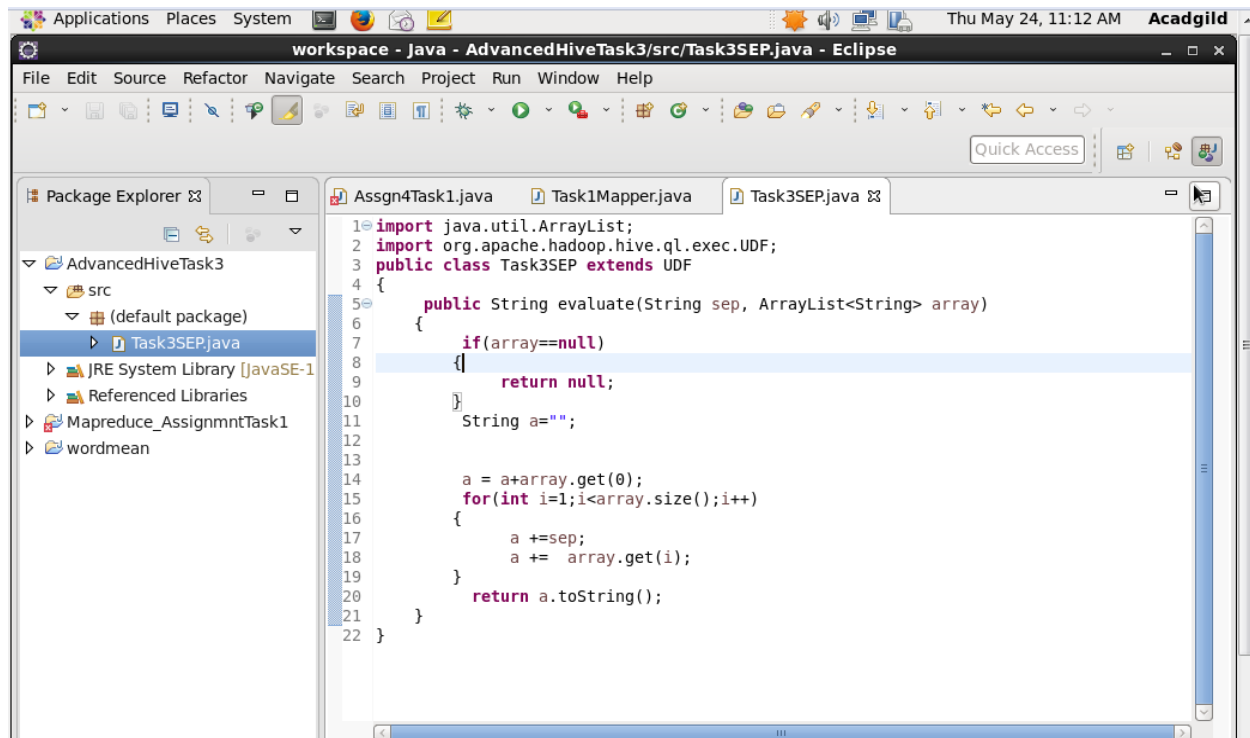
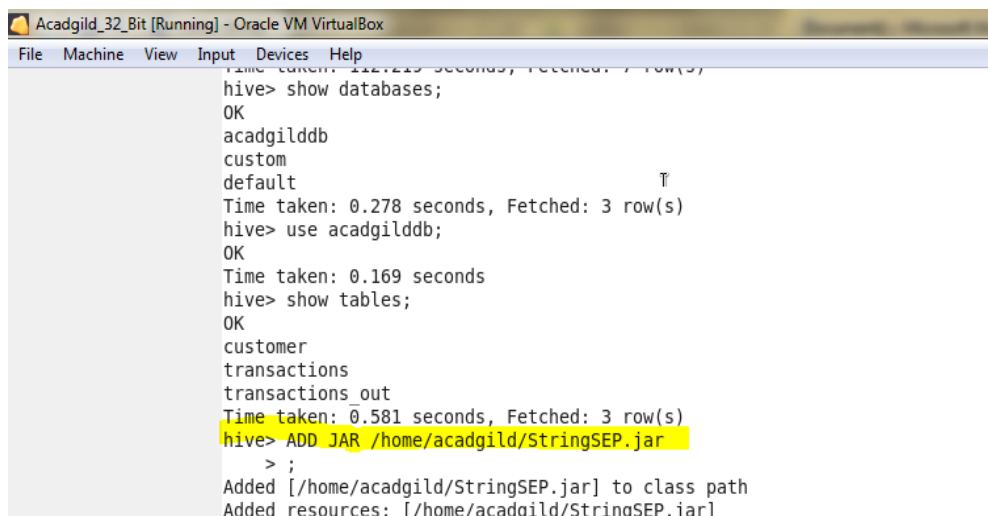


Task 2 :- Write a hive UDF that implements functionality of string concat_ws(string SEP, array<string>). This UDF will accept two arguments, one string and one array of string. It will return a single string where all the elements of the array are separated by the SEP.

Solution: Firstly we need to write the UDF function with class who extends UDF class. Need to import the package org.apache.hadoop.hive.ql.exec.UDF while using UDF class. Need to overwrite the function evaluate() with required logic as follows.



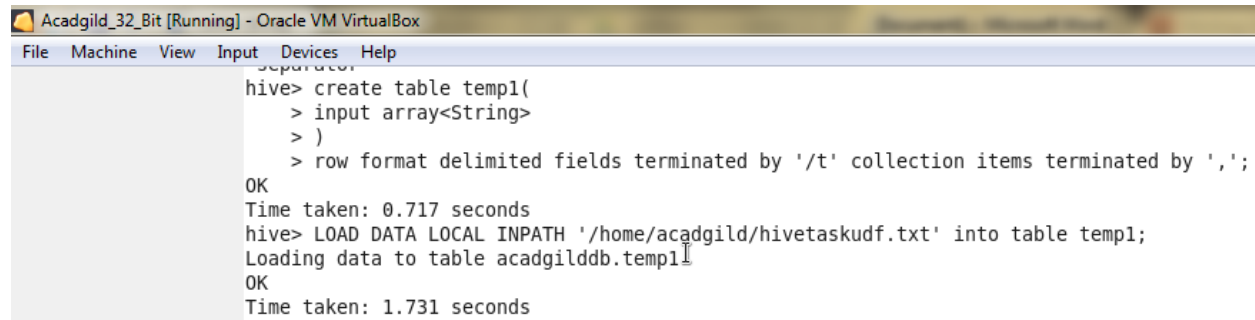
We need to make sure there are no errors in the program, for that we need to import required jars. Later we need to export this program as jar and add this jar to hive .



Create temporary function :

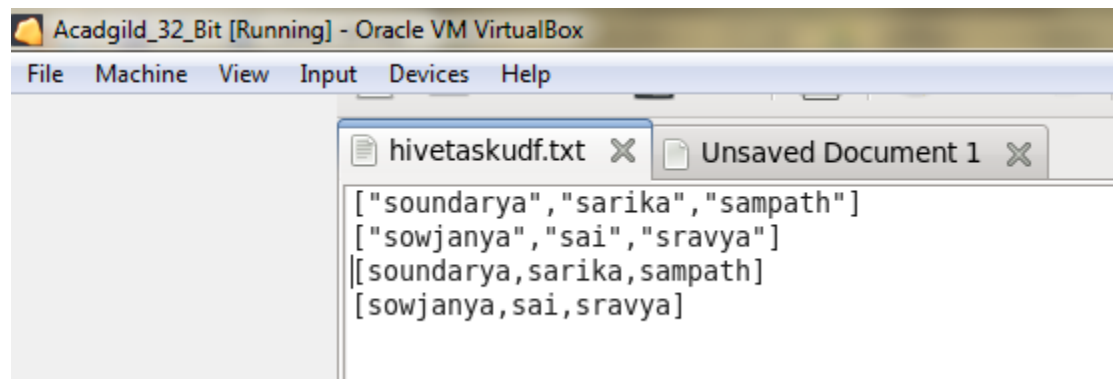
```
hive> CREATE TEMPORARY FUNCTION sep as 'Task3SEP';
OK
Time taken: 0.048 seconds
```

Create table with input data and input column type as array of string as follows:



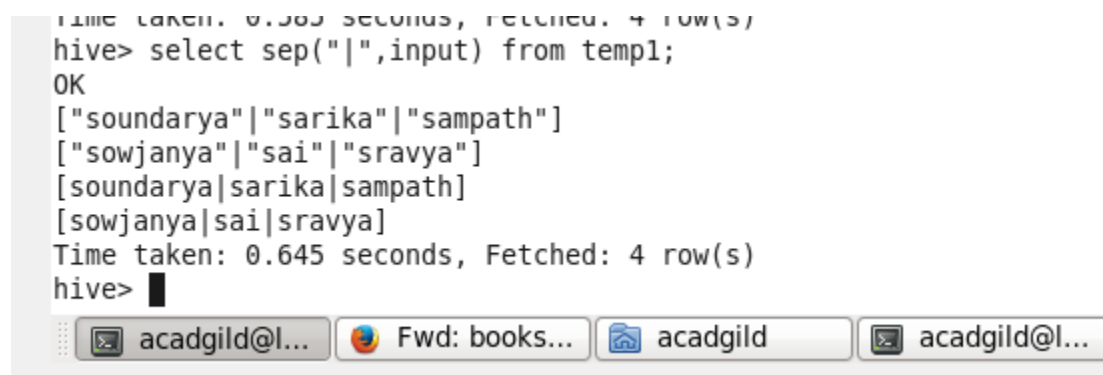
```
Acadgild_32_Bit [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
hive> create table temp1(
> input array<String>
> )
> row format delimited fields terminated by '/' collection items terminated by ',';
OK
Time taken: 0.717 seconds
hive> LOAD DATA LOCAL INPATH '/home/acadgild/hivetaskudf.txt' into table temp1;
Loading data to table acadgild.db.temp1
OK
Time taken: 1.731 seconds
```

INPUT DATA:



```
Acadgild_32_Bit [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
hivetaskudf.txt Unsaved Document 1
["soundarya","sarika","sampath"]
["sowjanya","sai","sravya"]
[soundarya,sarika,sampath]
[sowjanya,sai,sravya]
```

Now use the created UDF,---?used "|" as separator (SEP).



```
Acadgild_32_Bit [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Time taken: 0.383 seconds, Fetched: 4 row(s)
hive> select sep("|",input) from temp1;
OK
["soundarya"|"sarika"|"sampath"]
["sowjanya"|"sai"|"sravya"]
[soundarya|sarika|sampath]
[sowjanya|sai|sravya]
Time taken: 0.645 seconds, Fetched: 4 row(s)
hive>
Taskbar: acadgild@l... Fwd: books... acadgild acadgild@l...
```

Now we will export it to jar and include this jar to hive by following command

Add jar Append '/home/acadgild/Desktop/'

Create temporary function concatenation as Append

Now the UDF function is ready to use

