

Assignment 11

```
$ impala-shell -i localhost --quiet
Starting Impala Shell without Kerberos authentication
Welcome to the Impala shell. Press TAB twice to see a list of available commands.
...
(Shell
    build version: Impala Shell v3.4.x (hash) built on
    date)
[localhost:21000] > select version();
+-----+
| version() |
+-----+
| impalad version ... |
| Built on ... |
+-----+
[localhost:21000] > show databases;
+-----+
| name |
+-----+
| _impala_builtins |
| ctas |
| d1 |
| d2 |
| d3 |
| default |
| explain_plans |
| external_table |
| file_formats |
| tpc |
+-----+
[localhost:21000] > select current_database();
+-----+
| current_database() |
+-----+
| default |
+-----+
[localhost:21000] > show tables;
+-----+
| name |
+-----+
| ex_t |
| t1 |
+-----+
[localhost:21000] > show tables in d3;

[localhost:21000] > show tables in tpc;
+-----+
| name |
+-----+
| city |
| customer |
| customer_address |
| customer_demographics |
| household_demographics |
| item |
| promotion |
| store |
| store2 |
| store_sales |
| ticket_view |
| time_dim |
| tpc_tables |
+-----+
[localhost:21000] > show tables in tpc like 'customer*';
+-----+
```

name
customer
customer_address
customer_demographics

```
[localhost:21000] > use tpc;
```

```
[localhost:21000] > show tables like '*view*';
```

name
ticket_view

```
[localhost:21000] > describe city;
```

name	type	comment
id	int	
name	string	
countrycode	string	
district	string	
population	int	

```
[localhost:21000] > select count(*) from city;
```

count(*)
0

```
[localhost:21000] > desc customer;
```

name	type	comment
c_customer_sk	int	
c_customer_id	string	
c_current_demo_sk	int	
c_current_hdemo_sk	int	
c_current_addr_sk	int	
c_first_shipto_date_sk	int	
c_first_sales_date_sk	int	
c_salutation	string	

c_first_name	string	
c_last_name	string	
c_preferred_cust_flag	string	
c_birth_day	int	
c_birth_month	int	
c_birth_year	int	
c_birth_country	string	
c_login	string	
c_email_address	string	
c_last_review_date	string	

+-----+-----+-----+

```
[localhost:21000] > select count(*) from customer;
```

+-----+

count(*)

+-----+

100000

+-----+

```
[localhost:21000] > select count(distinct c_birth_month) from customer;
```

+-----+

count(distinct c_birth_month)

+-----+

12

+-----+

```
[localhost:21000] > select count(*) from customer where c_email_address is null;
```

+-----+

count(*)

+-----+

0

+-----+

```
[localhost:21000] > select distinct c_salutation from customer limit 10;
```

+-----+

c_salutation

+-----+

Mr.

Ms.

Dr.

--

Miss

Sir

Mrs.

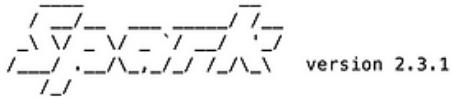
```

+-----+
[localhost:21000] > create database experiments;
[localhost:21000] > show databases;
+-----+
| name |
+-----+
| _impala_builtins |
| ctas |
| d1 |
| d2 |
| d3 |
| default |
| experiments |
| explain_plans |
| external_table |
| file_formats |
| tpc |
+-----+
[localhost:21000] > show databases like 'exp*';
+-----+
| name |
+-----+
| experiments |
| explain_plans |
+-----+

```

Assignment 12

```
Spark context available as 'sc' (master = local[*], app id = local-1565028490977).  
Spark session available as 'spark'.  
Welcome to
```



```
Using Scala version 2.11.8 (Java HotSpot(TM) 64-Bit Server VM, Java 1.8.0_171)  
Type in expressions to have them evaluated.  
Type :help for more information.
```

```
[scala> println("Hello World")  
Hello World
```

```
scala> █
```

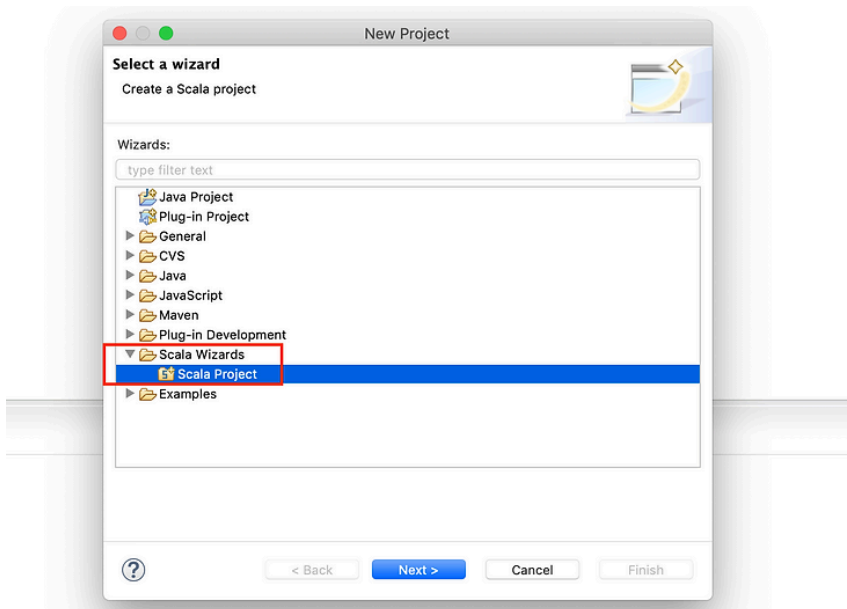
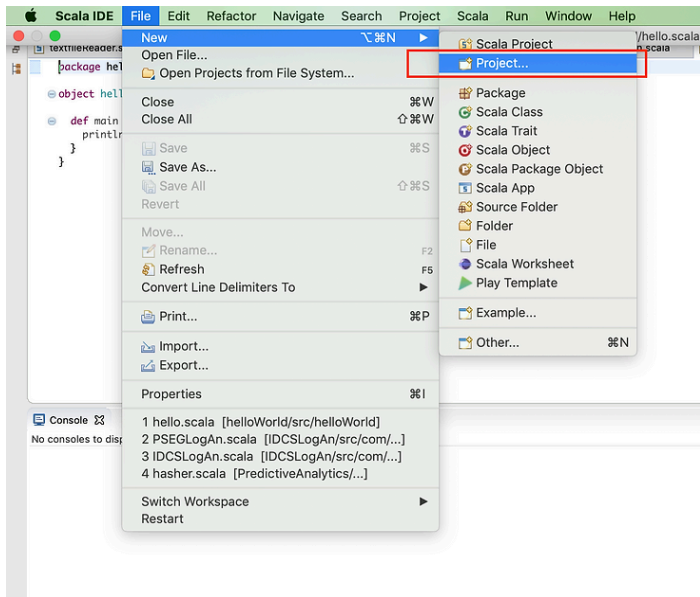
```
scala> // Hello WORLD WORLD - This is single line comment
```

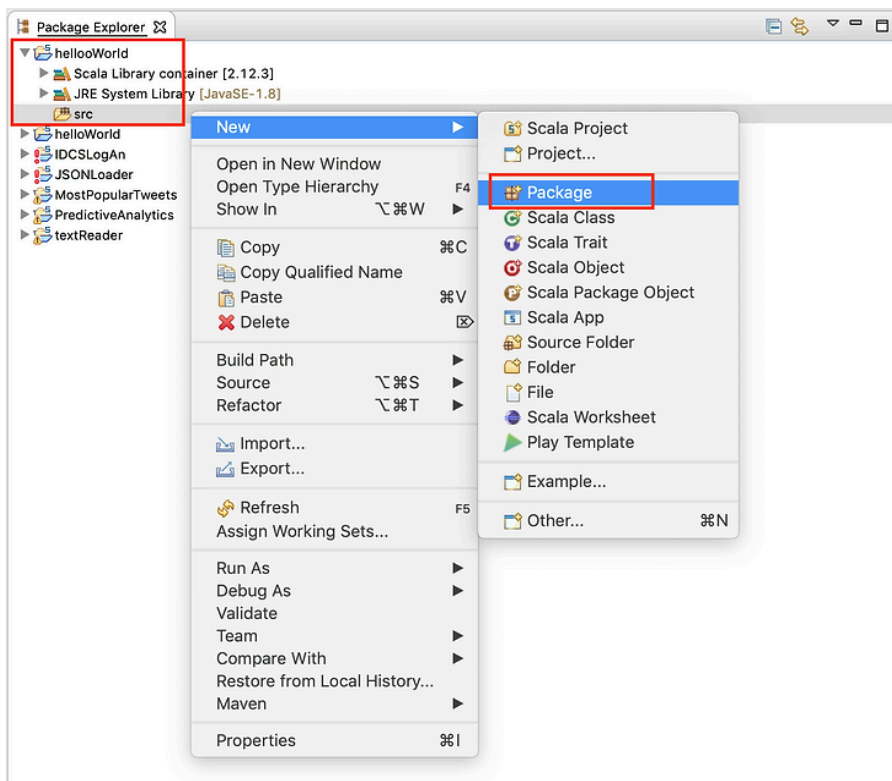
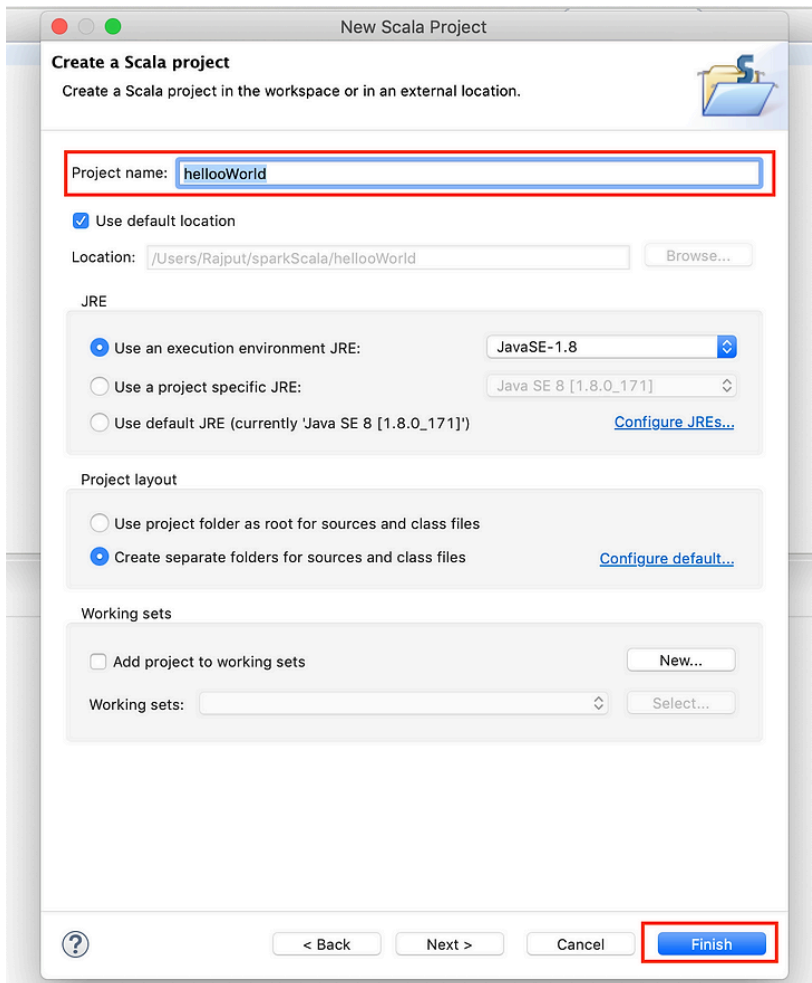
```
scala> /* Hello World
```

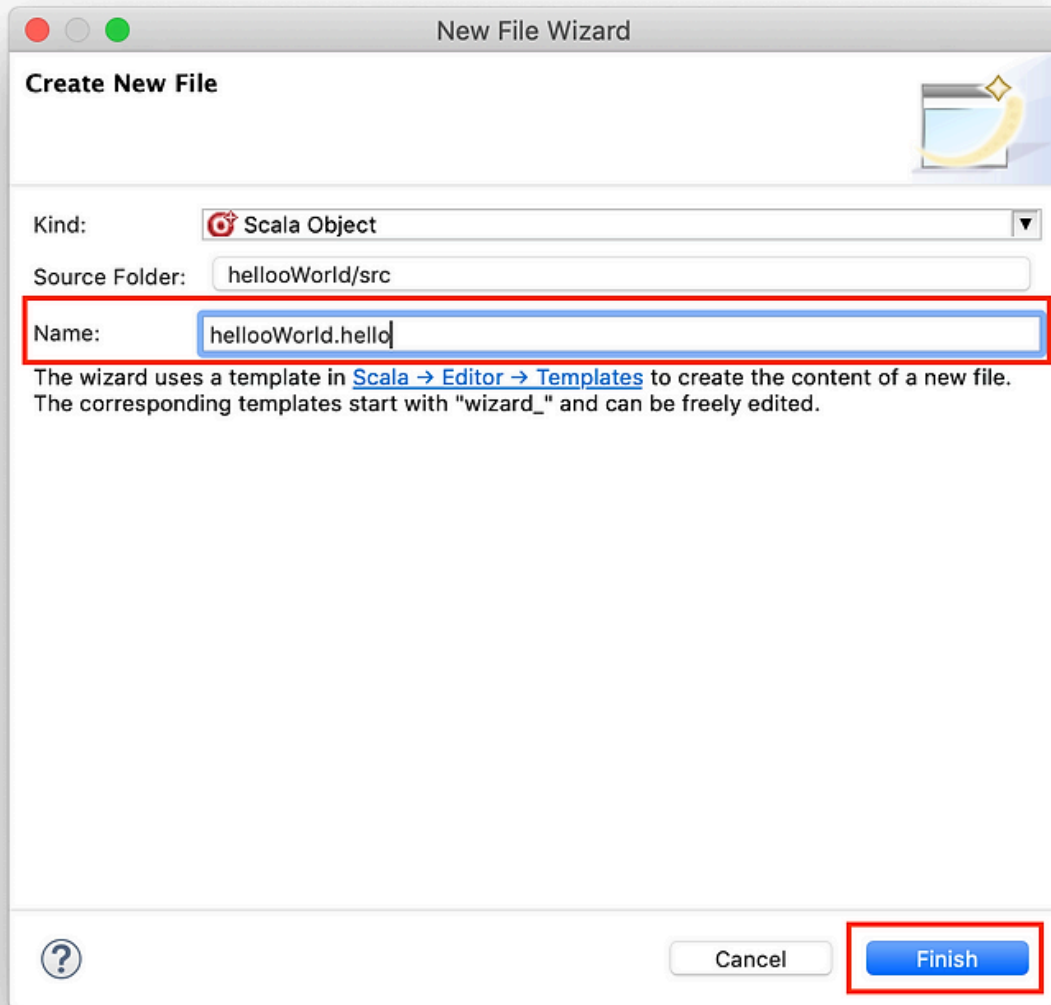
```
| This is multi-line comment
```

```
| Data Nebulae
```

```
| */
```







Scala Hello World Program:

```
package helloWorld
object hello {
  def main (args: Array[String]) {
    println("Hello World")
  }
}
```