

IntelliJ IDEA interface showing a Java project named `custom_datastore`. The project structure is visible on the left, including `src/main/java` and `test` directories. The main code file, `MainApplication.java`, is open in the editor, displaying the `main` method. The code creates a `DataStore` instance, creates a key-value pair ("name", "vignesh"), reads the key, and creates a key with a time to live ("age", 21, 3).

```
public static void main(String[] args) {  
    //create a datastore  
    DataStore datastore = new DataStore();  
  
    //create a key-value pair  
    String result = datastore.create("name", "vignesh");  
    System.out.println(result);  
  
    //read the key  
    System.out.println(datastore.read(key: "name"));  
  
    //create a key with time to live  
    String result2 = datastore.create(key: "age", value: 21, timeToLive: 3);  
    System.out.println(result2);  
}
```

The Run configuration is set to `MainApplication`. The output shows the execution of the program, including the command line and the output of the `main` method.

Run: `"C:\Program Files\AdoptOpenJDK\jdk-11.0.9-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\lib\idea_rt.jar=62529:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\bin\idea\bin\java.exe" -Didea.config.path=C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\config -Didea.home.path=C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\bin\idea\bin -Didea.platform.prefix=java -Djava.awt.headless=true -Djava.class.path=C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\bin\idea\bin\java.exe`

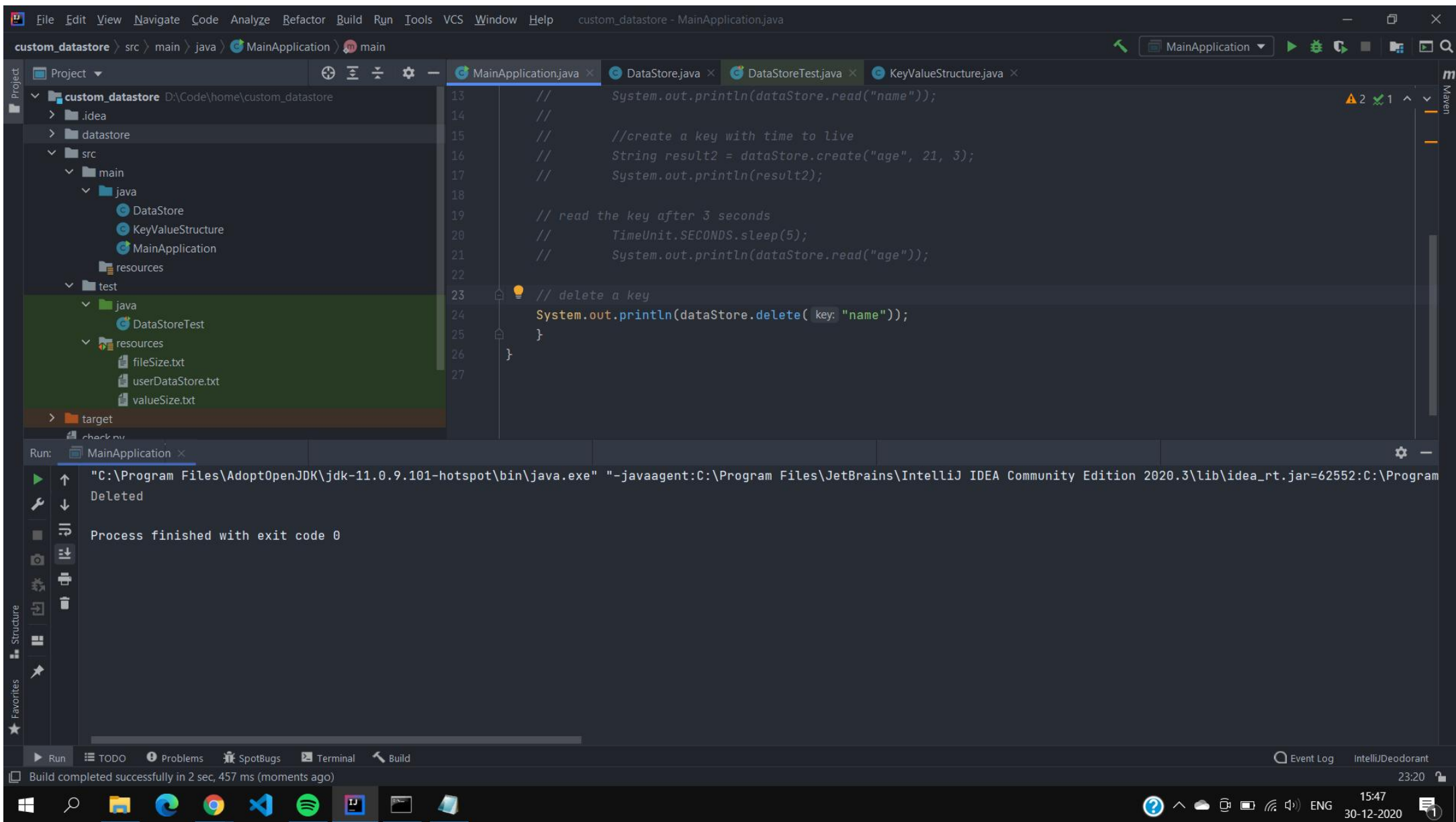
Added
{ "name": "vignesh" }

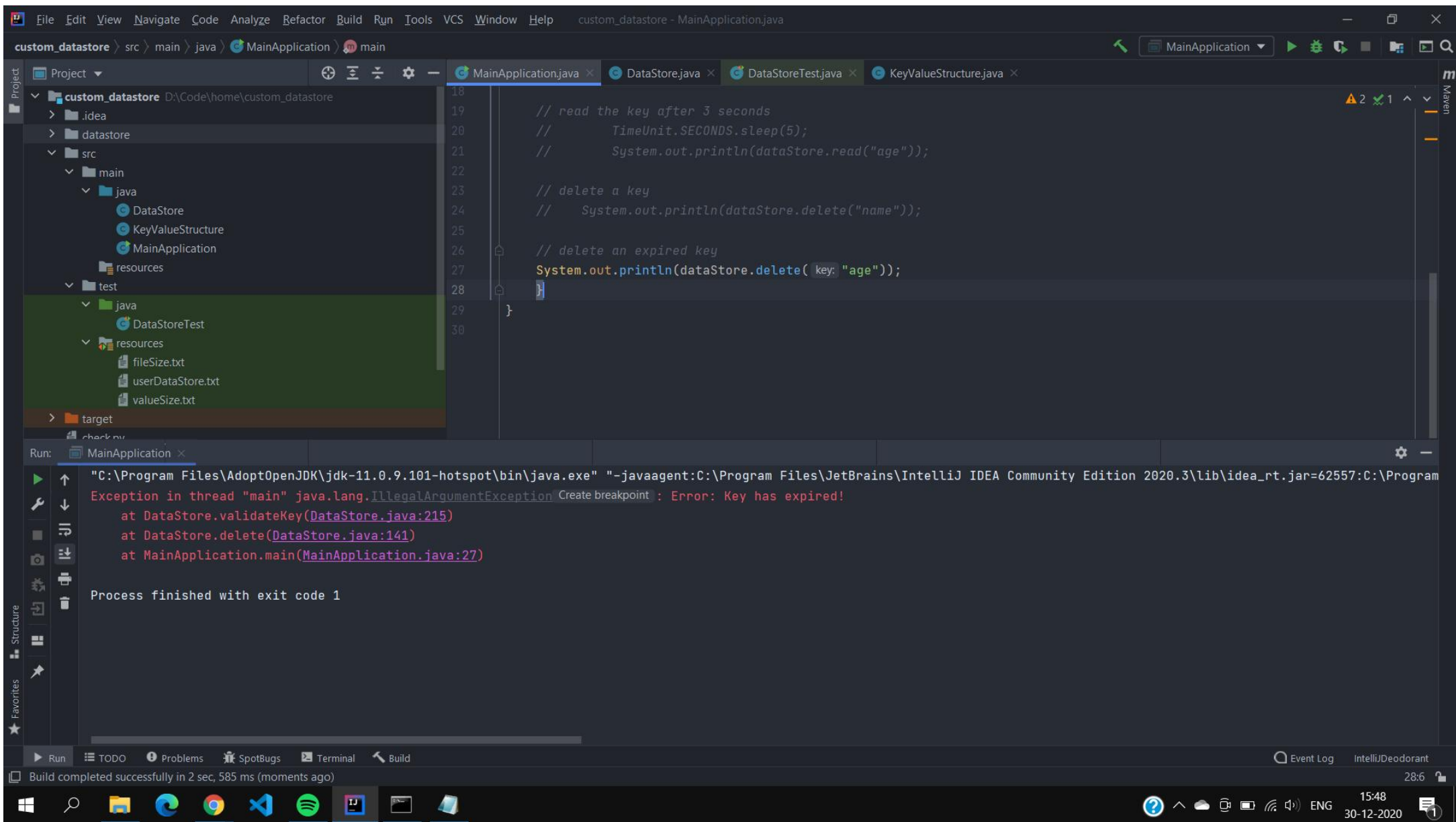
Added

Process finished with exit code 0

Build completed successfully in 2 sec, 509 ms (moments ago)

System tray: 15:45, 30-12-2020, ENG





IntelliJ IDEA interface showing a Java project named `custom_datastore`. The project structure includes `src/main/java` with `DataStore`, `KeyValueStructure`, and `MainApplication` classes, and `test` resources.

The `MainApplication.java` file is open, showing the following code:

```
22
23 // delete a key
24 // System.out.println(dataStore.delete("name"));
25
26 // delete an expired key
27 // System.out.println(dataStore.delete("age"));
28
29 // insert an exisiting key
30 System.out.println(dataStore.create("club", "fcb"));
31 System.out.println(dataStore.create("club", "spurs"));
32 }
33
34
```

The Run console shows the following output:

```
Run: MainApplication x
"C:\Program Files\AdoptOpenJDK\jdk-11.0.9-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3\lib\idea_rt.jar=62564:C:\Program
Added
Exception in thread "main" java.lang.IllegalArgumentException: Error: Key already exists
    at DataStore.isValid(DataStore.java:165)
    at DataStore.create(DataStore.java:98)
    at MainApplication.main(MainApplication.java:31)
Process finished with exit code 1
```

The status bar at the bottom indicates the build completed successfully in 2 sec, 607 ms (moments ago). The system tray shows the date and time as 30-12-2020 15:49.

