

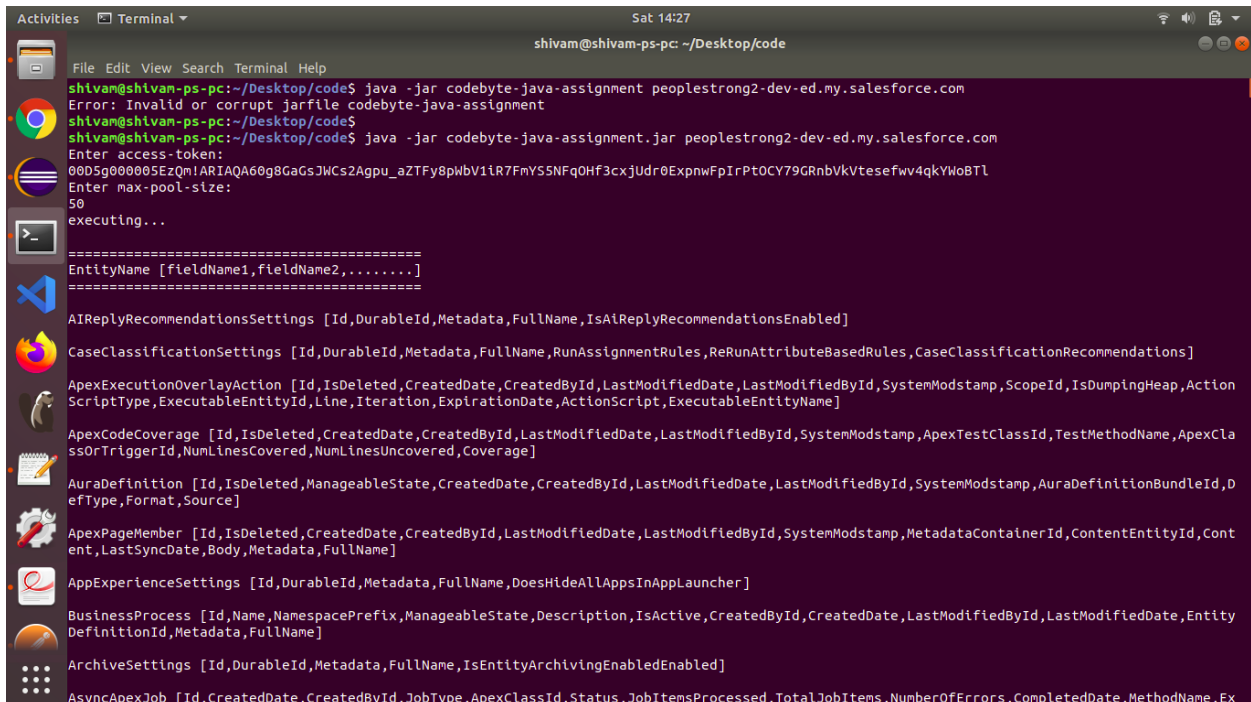
Steps to run application

Java -jar <jar file path> <domain-name>

Example: java -jar codebyte-java-assignment.jar peoplestrong2-dev-ed.my.salesforce.com

After that the program will ask for access-token and max-pool-size.

1. **Access-token** (mandatory to access Salesforce APIs)
2. **Max-pool-size** (It will decide max no. of parallel threads to be used in the program to perform its task. It has direct relationship with the overall performance.)



```
shivan@shivan-ps-pc: ~/Desktop/code$ java -jar codebyte-java-assignment.jar peoplestrong2-dev-ed.my.salesforce.com
Error: Invalid or corrupt jarfile codebyte-java-assignment
shivan@shivan-ps-pc: ~/Desktop/code$ java -jar codebyte-java-assignment.jar peoplestrong2-dev-ed.my.salesforce.com
Enter access-token:
0005g000005EzQm!ARIAQA60g8GaGsJWCs2Agpu_aZTFy8pWbV1iR7FnY55NFq0Hf3cxjUdr0ExpnwFpIrPt0CY79GRnbVkvtesefwv4qkYWoBTL
Enter max-pool-size:
50
executing...
=====
EntityName [fieldName1,fieldName2,.....]
=====
AIReplyRecommendationsSettings [Id,DurableId,Metadata,FullName,IsAIReplyRecommendationsEnabled]
CaseClassificationSettings [Id,DurableId,Metadata,FullName,RunAssignmentRules,ReRunAttributeBasedRules,CaseClassificationRecommendations]
ApexExecutionOverlayAction [Id,IsDeleted,CreateDate,CreatedById,LastModifiedDate,LastModifiedById,SystemModstamp,ScopeId,IsDumpingHeap,ActionScriptType,ExecutableEntityId,Line,Iteration,ExpirationDate,ActionScript,ExecutableEntityName]
ApexCodeCoverage [Id,IsDeleted,CreateDate,CreatedById,LastModifiedDate,LastModifiedById,SystemModstamp,ApexTestClassId,TestMethodName,ApexClassOrTriggerId,NumLinesCovered,NumLinesUncovered,Coverage]
AuraDefinition [Id,IsDeleted,ManageableState,CreateDate,CreatedById,LastModifiedDate,LastModifiedById,SystemModstamp,AuraDefinitionBundleId,DefinitionType,Format,Source]
ApexPageMember [Id,IsDeleted,CreateDate,CreatedById,LastModifiedDate,LastModifiedById,SystemModstamp,MetadataContainerId,ContentEntityId,Content,LastSyncDate,Body,Metadata,FullName]
AppExperienceSettings [Id,DurableId,Metadata,FullName,DoesHideAllAppsInAppLauncher]
BusinessProcess [Id,Name,NamespacePrefix,ManageableState,Description,IsActive,CreatedById,CreateDate,LastModifiedById,LastModifiedDate,EntityDefinitionId,Metadata,FullName]
ArchiveSettings [Id,DurableId,Metadata,FullName,IsEntityArchivingEnabled]
AsyncApexJob [Id,CreateDate,CreatedById,JobType,ApexClassId,Status,JobItemsProcessed,TotalJobItems,NumberOfErrors,CompletedDate,MethodName,Ex
```

(Attached screenshot for your reference)

How to get Access Token

The screenshot shows a REST client interface with a POST request to `https://login.salesforce.com/services/oauth2/token`. The request body is a JSON object with the following fields:

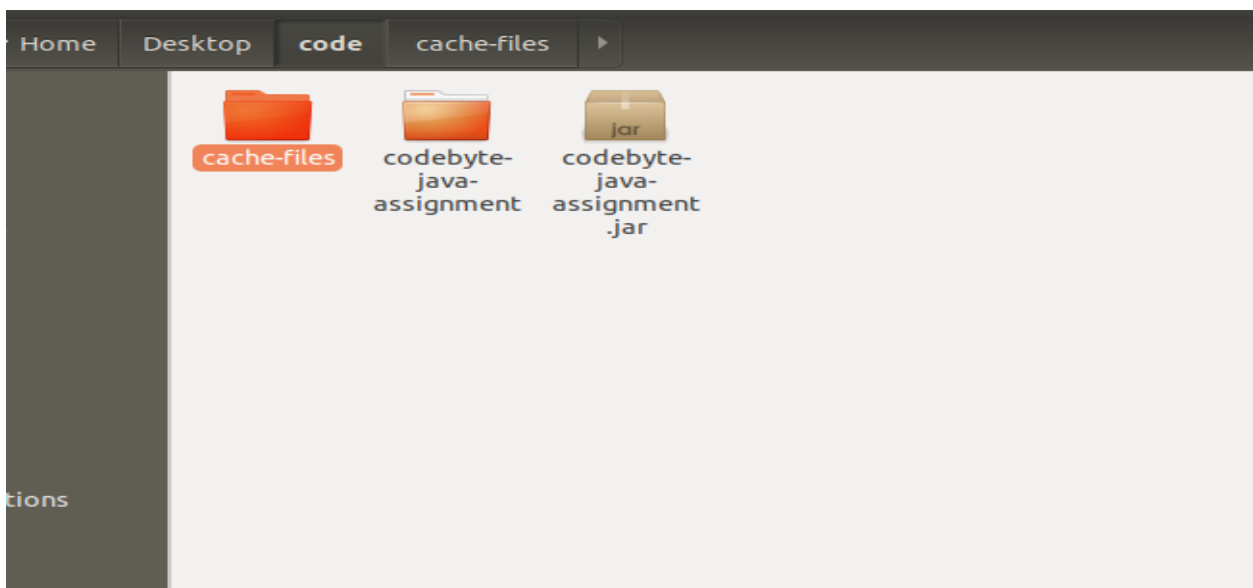
KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> client_id	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
<input checked="" type="checkbox"/> client_secret	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
<input checked="" type="checkbox"/> username	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
<input checked="" type="checkbox"/> password	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
<input checked="" type="checkbox"/> grant_type	password	

The response is a JSON object with the following fields:

```
1 {
2   "access_token": "0005g000005EzQm!ARIAQA60g8GaGsJWCs2Aqpu_aZTFy8pWbV1iR7FmYSSNFq0HF3cxjUdr0ExpnwFpIrPt0CY79GRnbVkteseFW4qkYWo8TL",
3   "instance_url": "https://peoplestrong2-dev-ed.my.salesforce.com",
4   "id": "https://login.salesforce.com/id/0005g000005EzQmEAK/0005g000009RI1pAAG",
5   "token_type": "Bearer",
6   "issued_at": "1622276652156",
7   "signature": "Euawp7QPHF080fab9iv/vmVCLUz96Ud56YQWhd5JWlc="
8 }
```

cache-files

When you run a program, cache-files directory get automatically created that contains all files which has entity definition.



Below Point are taken care of in the code

1. Use Java 8 - **done**
2. Use Maven as your build tool - **done**
3. Develop self-documenting, clear and concise code - **done**
4. Performant, considering processing tasks in parallel - **done**
5. Well tested with good test coverage - **partially done**
6. Consider the SOLID principles - **done**
7. Consider the structure of your application and potential re-use of components/modules - **done**
8. The program runs and produces well-formed output - **done**
9. Please include a readme file in your submission with instructions to run your application so that we can mark your submission - **done**
10. Please email us an archive of your project via your HR contact - **done**