Introduction to AEM & Runmodes Exercise

1. Define the priority when run mode are applied using options

```
sling.properties file system properties (-D)
```

Ans. The priorities of the above methods would be as follows

1. System Properties (-D):-

```
arpit@arpit:~/Author$ java -XX:MaxPermSize=256m -Xmx1024M -jar AEM_6.5_Quickstar
t.jar -Dsling.run.modes=author,qa
```

2. Sling.properties file:-

```
org.osgi.framework.system.packag
sling.run.modes=author,dev
felix.jpms.java.sql=,javax.sql;v
```

In this i have defined both properties for the same instance and the output instance is of (Author,qa) type therefore System properties (-D) has higher precedence than sling properties file.

```
Date: March 14, 2020 6:22:30 PM IST

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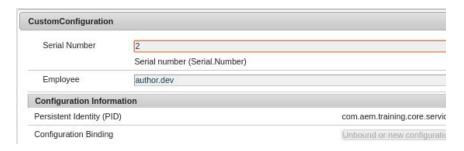
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Apache Sling Settings

Sling ID = 92296af4-4fe8-4078-b318-a2c48cfb8beb
Sling Name = Instance 92296af4-4fe8-4078-b318-a2c48cfb8beb
Sling Description = Instance with id 92296af4-4fe8-4078-b318-a2c48cfb8beb and run modes [qa, s7connect, crx3, author, samplecontent, crx3tar]
Sling Home = /home/arpit/Author/crx-quickstart
Sling Home URL = file:/home/arpit/Author/crx-quickstart/
Run Modes = [qa, s7connect, crx3, author, samplecontent, crx3tar]
```

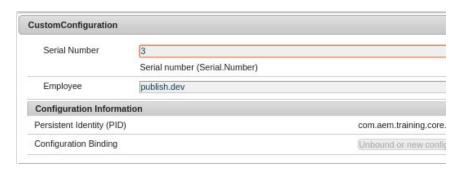
- 2. Creating a OSGi service which has two properties to configure. Define these configuration for run modes :
 - a. Dev

In this first i started the author, dev instance of aem and checked the Configuration.



b. Dev,pub

In this i started the publish, dev instance of aem and checked the Configuration.



Folder structure of configuration:

- training
 - ▶ I clientlibs
 - components
 - config
 - config.author
 - config.author.dev
 - com.aem.training.core.services.MyServiceImpl.xml
 - config.publish.dev
 - acom.aem.training.core.services.MyServiceImpl.xml

Code:-

1. Author, dev:-

```
<?xml version="1.0" encoding="UTF-8"?>
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0" xmlns:jcr="http://www.jcp.org/jcr/1.0"
    jcr:primaryType="sling:OsgiConfig"
    Serial.Number="2"
    Employee.Name="author.dev"/>
```

2. Publish, dev:-

```
<?xml version="1.0" encoding="UTF-8"?>
<jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0" xmlns:jcr="http://www.jcp.org/jcr/1.0"
    jcr:primaryType="sling:OsgiConfig"
    Serial.Number="3"
    Employee.Name="publish.dev"/>
```