Introduction to AEM

Q1. Define the priority when run mode are applied using options:

    a. sling.properties file

    b. system properties (-D)

<u>Ans1.</u> When defined together, run modes defined by system properties (-D) take priority over

those defined in the sling.properties file

Using system properties (-D)

```
ammar@ammar:aemAuthor $ java -jar AEM_6.5_Quickstart.jar -Dsling.run.modes=dev
Loading quickstart properties: default
Loading quickstart properties: instance
Low-memory action set to fork
Using 64bit VM settings, min.heap=1024MB, min permgen=256MB, default fork arguments=[-Xmx1024m, -XX:MaxPermSize=256m]
The JVM reports a heap size of 3500 MB, meets our expectation of 1024 MB +/- 20
Setting properties from filename '/home/ammar/Documents/aemAuthor/AEM_6.5_Quickstart.jar'
Setting 'sling.run.modes' to 'slingprop' from sling.properties.
Ignoring value '' from command line.
Verbose option not active, closing stdin and redirecting stdout and stderr
```

Using sling.properties file

```
sling.run.modes=slingprop
```

Adobe Experience Manager Web Console
Sling Settings

Main   OSGi   Sling   Status   Web Console

Date: April 5, 2020 10:02:42 PM IST

```
Apache Sling Settings

Sling ID = 81f79fa4-f05e-4d93-96a4-397054b00cfd
Sling Name = Instance 81f79fa4-f05e-4d93-96a4-397054b00cfd
Sling Description = Instance with id 81f79fa4-f05e-4d93-96a4-397054b00cfd and ru
Sling Home = /home/ammar/Documents/aemAuthor/crx-quickstart
Sling Home URL = file:/home/ammar/Documents/aemAuthor/crx-quickstart/
Run Modes = [dev, s7connect, crx3, author, samplecontent, crx3tar]
```

Q2. Creating a OSGi service which have two properties to configure. Define these configuration for run modes :

a. dev

b. Dev,pub

Ans2

TechBlog Configuration

```java
import ...

@ObjectClassDefinition(name = "Tech Blog Configurations")
public @interface TechBlogConfig {

    @AttributeDefinition(name = "Blog Category", type = AttributeType.STRING)
    String bundleCategory() default "Technology";

    @AttributeDefinition(name = "Blog Rank", type = AttributeType.INTEGER)
    int rank() default 1;
}
```

```xml
<?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"
        bundleCategory="Developer"
        rank="2"
/>
```

```xml
<?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"
        bundleCategory="Publisher"
        rank="3"
/>
```
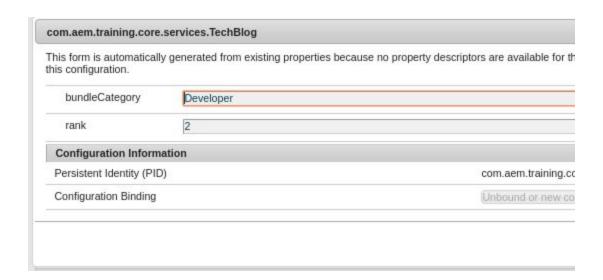
Updated Configuration for dev runmode

com.aem.training.core.services.TechBlog

This form is automatically generated from existing properties because no property descriptors are available for th
this configuration.

| bundleCategory | Developer |
| rank | 2 |

Configuration Information

Persistent Identity (PID)   com.aem.training.cc

Configuration Binding   Unbound or new co

Updated configuration for publish,dev runmodes

com.aem.training.core.services.TechBlog

This form is automatically generated from existing properties because no property de
this configuration.

| bundleCategory | Publisher |
| rank | 3 |

Configuration Information

Persistent Identity (PID)

Configuration Binding