LAB-   Using Java Module

In this lab you will understand

     a) how to Invoke a static method on a given class

     b) How to create a new java Object

     c) How to Invoke a method on a given instance

1)Create a project with name javamoduledemo.

 Under src/main/mule , create a new Mule Configuration file with name using-javamodule.xml.

Drag Http Listener and set its path as /sayhello .

You should observe that this listener is also referring to same global Http Listener configuration .

2) Extract lab2.zip given to you   and copy the   com folder inside it into src/main/java of the project.

Open com.way2learnonline.StockQuoteService under src/main/java and observe 2 methods in it

Now we want to invoke static method   sayHello(String,String) on StockQuoteService

Add Java Module.

Now drag "Invoke Static" component after Http Listener.

Configure Class Name as com.way2learnonline.StockQuoteService

Select   method as sayHello(String name,String city)

In args section, select fx button.

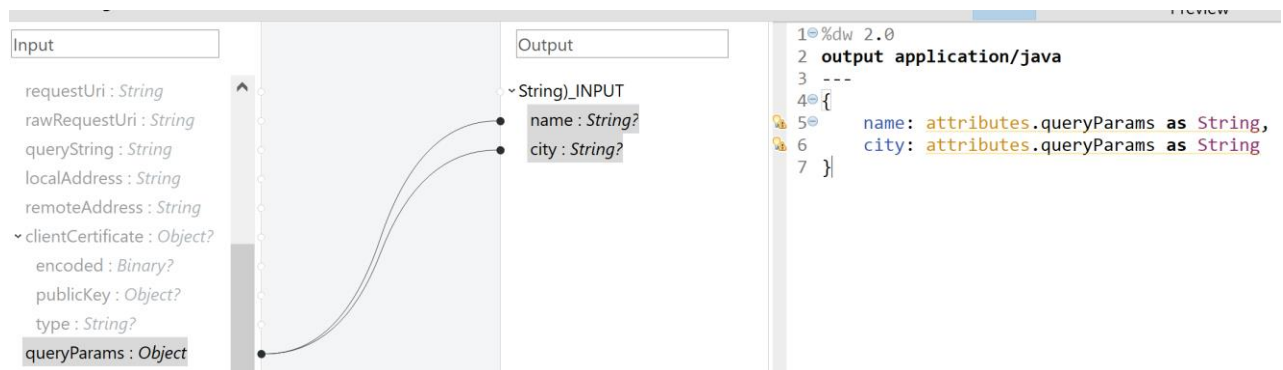To the right side of args section, click on "Show Graphical view icon"

U will see an error on the right side as there is no expression written in the body

Now write {} in the body so that error will be gone

Drag queryParams under attributes and drop on name in the right side.
Again drag queryParams under attributes and drop on city in the right side.

It should look like below

Now modify the generated expression as shown below:

```
{
    name: attributes.queryParams.name as String,
    city: attributes.queryParams.city as String
}
```

 Run the application .

Open postman and give request to
http://localhost:8081/sayhello?name=Siva&city=Bangalore and observe the result

3) Now We want to invoke non static method getStockPrice(String)

Drag Http Listener into a new flow and set its path as /getprice

Drag "new" component in java module. Configure classname as com.way2learnonline.StockQuoteService

Configure Constructor as StockQuoteService() to invoke default constructor. We don't need to configure args as this constructor is default constructor

Click on Advanced Tab in the "New" component properties window.

Set target variable as "sqs"

Set target value as #[payload]

Now drag Invoke component. class as com.way2learnonline.StockQuoteService and method as getStockPrice(String stockSymbol)

Set Instance as #[vars.sqs] and configure args as shown below using graphical view

```
{
      stockSymbol: attributes.queryParams.stock as String
}
```

Now deploy the application and give request to

http://localhost:8081/getprice?stock=ibm and observe that you get the price of ibm as response

Congratulations !! You have Created your First mule flow and understood basics

This is the end of the Exercise