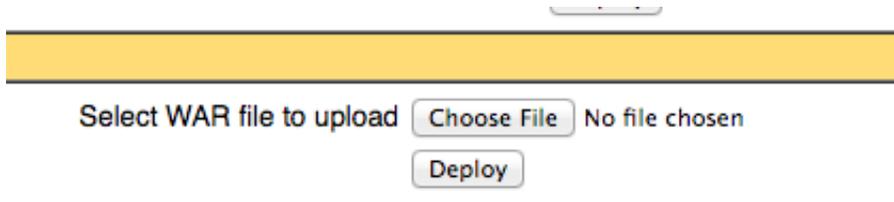


## 4. Azure deployment of ETP and EBP Applications

### Deploy ETP Application

Switch to the Tomcat manager web page

Deploy the war file by selecting using the 'Choose File' button and then click Deploy:



The screenshot shows a web interface for uploading a WAR file. It features a yellow header bar, a text prompt "Select WAR file to upload", a "Choose File" button, the text "No file chosen", and a "Deploy" button.

Once deployed you should see the application in the list:

<a href="#">/onldemo</a>	<i>None specified</i>	ETP Application
--------------------------	-----------------------	-----------------

Click the onldemo link and then click the servlet link in the next screen:

This is the **index.html** page for your deployed Elastic Transaction F

- <http://onldemo.azurewebsites.net/onldemo/servlet>

You should see the CICS screen (this may take a while to appear the first time you do this - several minutes):

SAMPLE SCREEN		DATE:
		TIME:
NAME :	<input type="text"/>	
PHONE :	<input type="text"/>	
MESSAGE : PROVIDE NECESSARY DETAILS		
F5=INSERT F3=BACK		

PF1	PF2
PF3	PF4
PF5	PF6
PF7	PF8
PF9	PF10
PF11	PF12
PA1	PA2
PA3	
Clear	
Reset	
Enter	

Enter a name and number and press F5.  
If the connection to the database was correct you'll see 'Insert successful' in the message field:



You can validate data is in the table using an SQL client, or you can execute the ListTable application within Eclipse:

```

33     EXEC SQL declare csr1 cursor for
34         select name
35             ,phone
36     from onldemo_table1
37     FOR READ ONLY
38     END-EXEC.
39
40     EXEC SQL
41         open csr1
42     END-EXEC.
43     IF SQLCODE NOT = 0
44         DISPLAY "FAILED TO OPEN CURSOR CSR1 " SQLCODE " " SQLERRM
45         UPON SYSERR
46         GO TO FIN
47     END-IF
48
49     perform until end-of-cursor
50     EXEC SQL
51         fetch csr1

```

Problems Console EBP Server

```

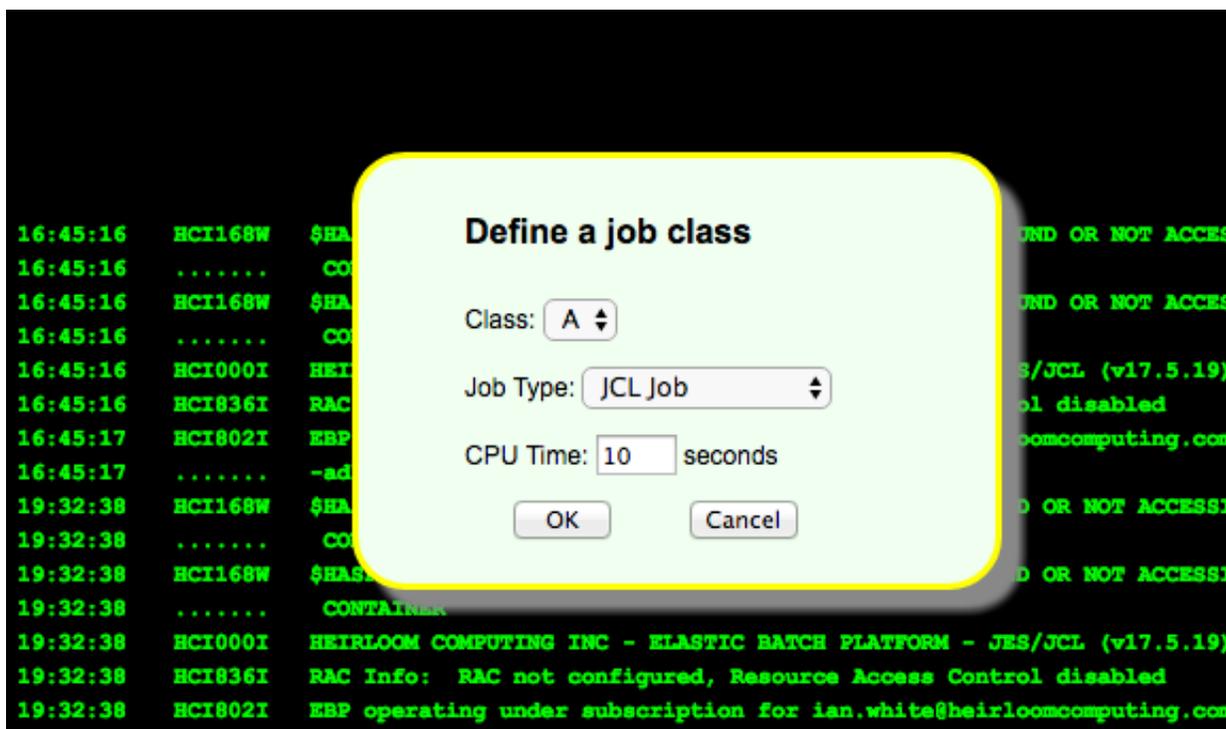
<terminated> ListTable.cbl [COBOL Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home/bin/java (Jun 23, 2017, 2:36:20 PM)
name: IAN : 000000123
sqlcode: 000000100+
End of Application
End of Program.

```

## Deploy the EBP Application and executing Batch via JCL

Using your ftp client, upload ListTable.jar to the application server and place in the D:\Home\JES directory.

In the EBP System Operator Console click 'Define' and then OK to create a Class A job class:



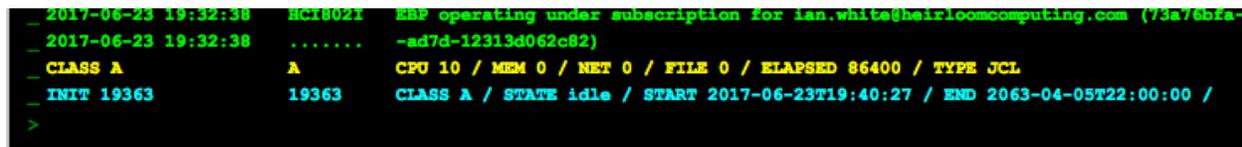
Click next to the defined class in the output window:



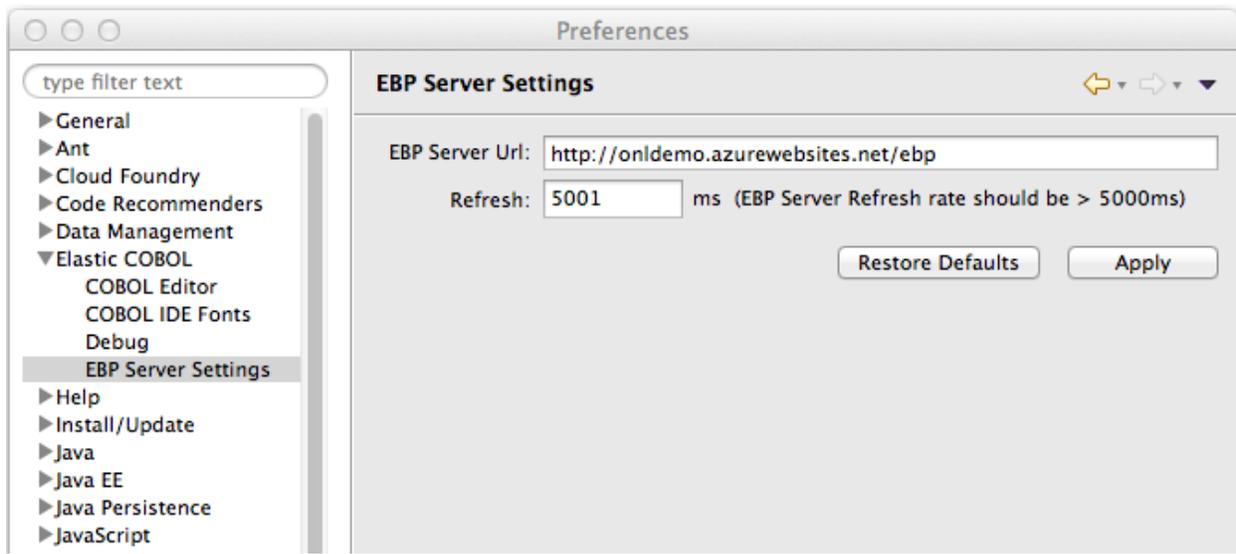
Click 'Start'



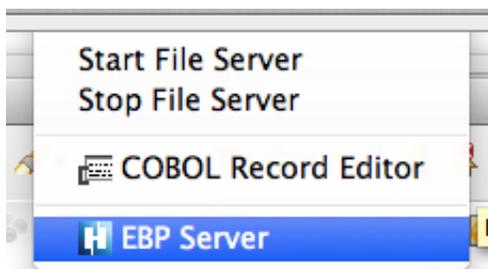
The console will show an Initiator started for that class:



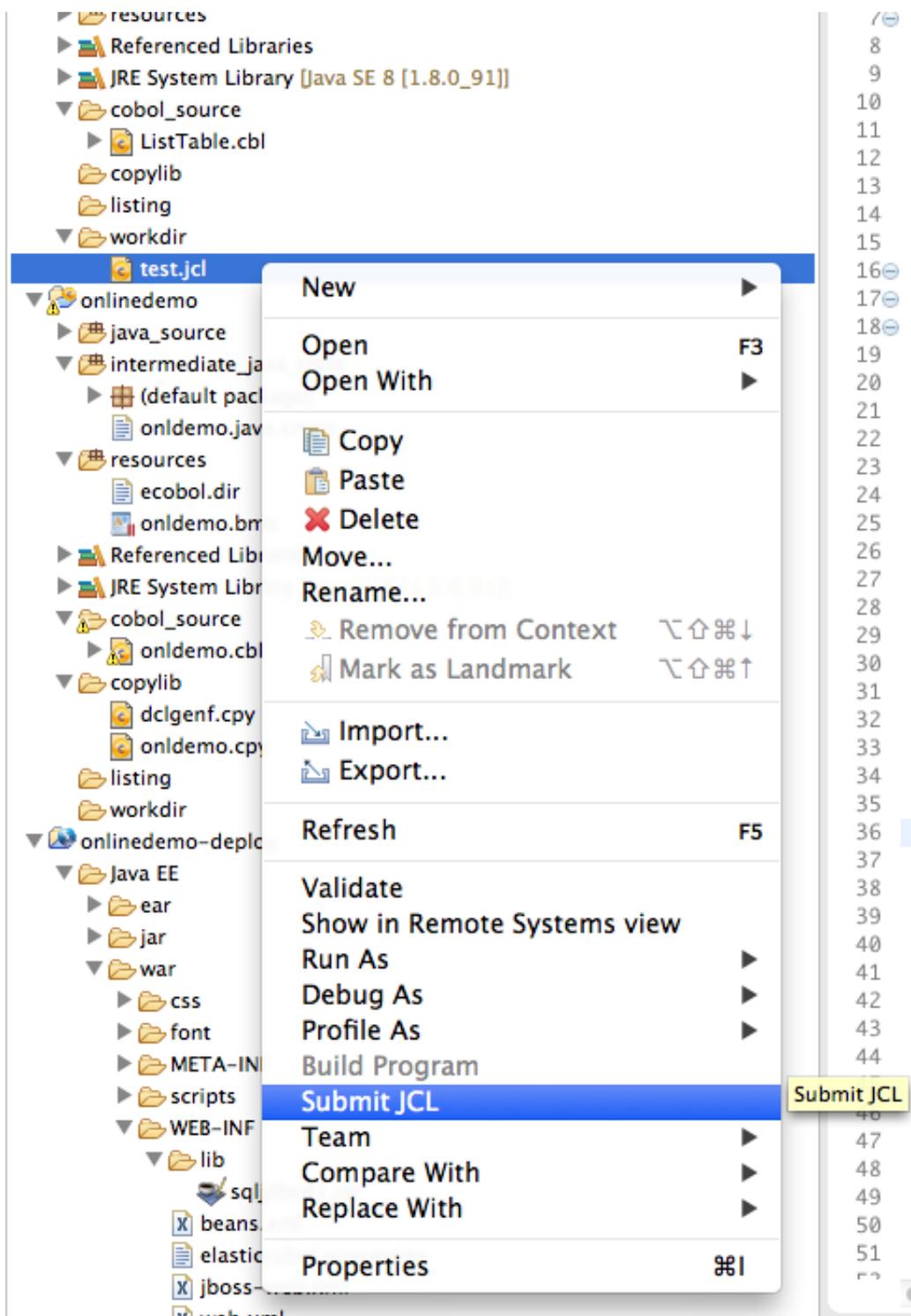
In Eclipse, go to Preferences, Elastic COBOL/EBP Server settings:



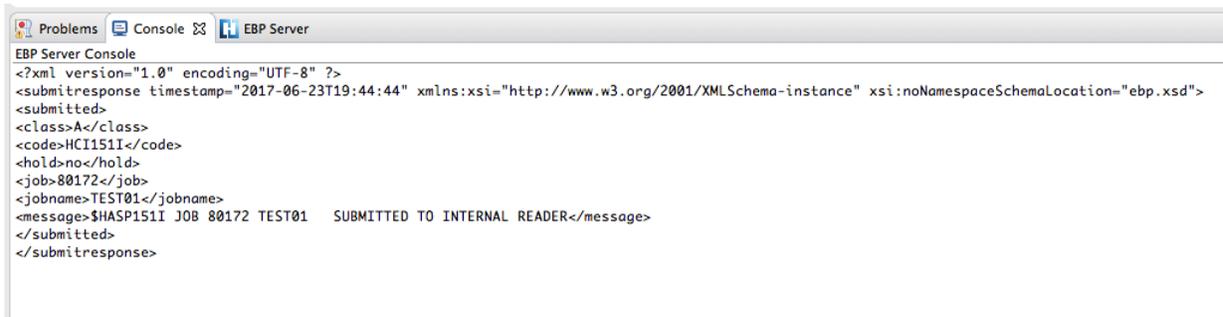
Enter your server URL and click Apply  
From the tools menu bring up the EBP server:



Right click on the test.jcl file in the workdir folder of ListTable project and click 'Submit JCL'

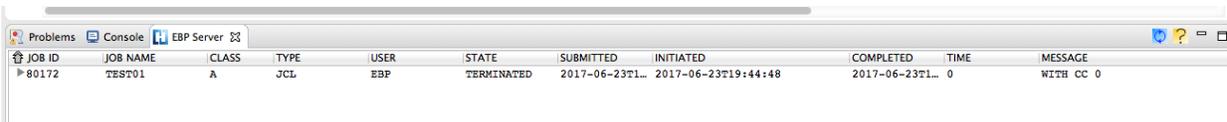


The console window will show the submit has gone to EBP and a job number produced:



```
EBP Server Console
<?xml version="1.0" encoding="UTF-8" ?>
<submitresponse timestamp="2017-06-23T19:44:44" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="ebp.xsd">
<submitted>
<class>A</class>
<code>HCI151I</code>
<hold>no</hold>
<job>80172</job>
<jobname>TEST01</jobname>
<message>HASP151I JOB 80172 TEST01 SUBMITTED TO INTERNAL READER</message>
</submitted>
</submitresponse>
```

Switch to the EBP Server tab and in a few seconds you'll see the job running. Wait a few seconds and you'll see it complete (you can use the refresh button also):



JOB ID	JOB NAME	CLASS	TYPE	USER	STATE	SUBMITTED	INITIATED	COMPLETED	TIME	MESSAGE
80172	TEST01	A	JCL	EBP	TERMINATED	2017-06-23T19:44:44	2017-06-23T19:44:48	2017-06-23T19:44:48	0	WITH CC 0

Once it has completed you can expand the row and click on the output record to bring up the JCL output in Eclipse:

```

1 2017-06-23 19:44:48 HEIRLOOM COMPUTING INC - ELASTIC BATCH PLATFORM - JES/JCL (v17.5.19)
2
3 2017-06-23 19:44:48 $HASP111I JOB 80172 TEST01   STARTED                ON CLASS A
4 2017-06-23 19:44:48 $HASP117I JCL SCAN START
5 2017-06-23 19:44:48 $HASP118I          /* :.....1.....2.....3.....4.....5.....6.....7.
6 2017-06-23 19:44:48 $HASP118I          //TEST01 JOB (HCIACCT),'EBP Table Test',CLASS=A,MSGCLASS=A,
7 2017-06-23 19:44:48 $HASP118I          //                               MSGLEVEL=(2,2),NOTIFY=USERID
8 2017-06-23 19:44:48 $HASP118I          //STEPID01 EXEC PGM=ListTable
9 2017-06-23 19:44:48 $HASP118I          //SYSIN DD DUMMY
10 2017-06-23 19:44:48 $HASP118I         //SYSPRINT DD SYSOUT=*
11 2017-06-23 19:44:48 $HASP118I         //SYSOUT DD SYSOUT=*
12 2017-06-23 19:44:48 $HASP118I         //SYSERR DD SYSOUT=*
13 2017-06-23 19:44:48 $HASP117I JCL SCAN END
14
15 2017-06-23 19:44:48 $HASP125I JOB ANALYSIS START
16 2017-06-23 19:44:48 $HASP126I          JOB ATTRIBUTE NAME: TEST01
17 2017-06-23 19:44:48 $HASP126I          JOB ATTRIBUTE CLASS: A
18 2017-06-23 19:44:48 $HASP126I          JOB ATTRIBUTE ACCOUNT: HCIACCT
19 2017-06-23 19:44:48 $HASP126I          JOB ATTRIBUTE PROGRAMMER: EBP Table Test
20
21 2017-06-23 19:44:48 $HASP126I          STEP ATTRIBUTE NAME: STEPID01
22 2017-06-23 19:44:48 $HASP126I          STEP ATTRIBUTE PGM: ListTable
23 2017-06-23 19:44:48 $HASP126I          DD ATTRIBUTE NAME: SYSIN
24 2017-06-23 19:44:48 $HASP126I          DD ATTRIBUTE NAME: SYSPRINT
25 2017-06-23 19:44:48 $HASP126I          DD ATTRIBUTE NAME: SYSOUT
26 2017-06-23 19:44:48 $HASP126I          DD ATTRIBUTE NAME: SYSERR
27
28 2017-06-23 19:44:48 $HASP125I JOB ANALYSIS STOP
29
30
31 2017-06-23 19:44:48 $HASP135I JOB 80172 TEST01   STEP STEPID01         STARTED
32 2017-06-23 19:45:11 $HASP136I JOB 80172 TEST01   STEP STEPID01         TERMINATED      WITH CC 0
33
34 2017-06-23 19:45:11 $HASP112I JOB 80172 TEST01   TERMINATED                WITH CC 0
35 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSPRINT'
36 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSOUT'
37 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSOUT'
38 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSERR'
39 name: IAN          : 000000123
40 sqlcode: 000000100+
41 End of Application
42 End of Program.
43 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSERR'
44 2017-06-23 19:45:11 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSERR'
45

```

JOB ID	JOB NAME	CLASS	TYPE	USER	STATE	SUBMITTED	INITIATED	COMPLETED	TIME	MESSAGE
80172	TEST01	A	JCL	EBP	TERMINATED	2017-06-23T1...	2017-06-23T19:44:48	2017-06-23T1...	0	WITH CC 0

You can see at the bottom of the output the listing from the Database.

If you switch to the EBP System Operator Console you'll see the job information echoed there also:

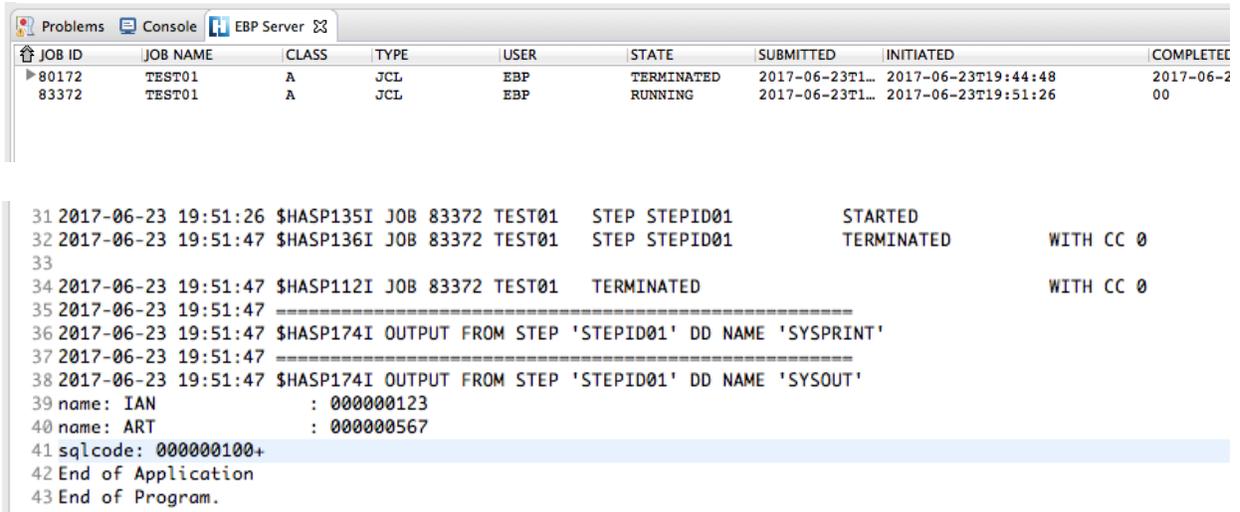
```

-
- 2017-06-23 19:32:38 HCI168W $HASP168W DATALIB LIBRARY D:\data IGNORED - NOT FOUND OR NOT ACCESSIBLE FROM SERVLET
- 2017-06-23 19:32:38 ..... CONTAINER
- 2017-06-23 19:32:38 HCI168W $HASP168W DATALIB LIBRARY D:\data IGNORED - NOT FOUND OR NOT ACCESSIBLE FROM SERVLET
- 2017-06-23 19:32:38 ..... CONTAINER
- 2017-06-23 19:32:38 HCI000I HEIRLOOM COMPUTING INC - ELASTIC BATCH PLATFORM - JES/JCL (v17.5.19)
- 2017-06-23 19:32:38 HCI836I RAC Info: RAC not configured, Resource Access Control disabled
- 2017-06-23 19:32:38 HCI802I EBP operating under subscription for ian.white@heirloomcomputing.com (73a76bfa-c914-11e0
- 2017-06-23 19:32:38 ..... -ad7d-12313d062c82)
- 2017-06-23 19:44:48 HCI101I $HASP101I JOB 80172 TEST01   STARTED                ON CLASS A
- 2017-06-23 19:44:48 HCI135I $HASP135I JOB 80172 TEST01   STEP STEPID01         STARTED
- 2017-06-23 19:45:11 HCI136I $HASP136I JOB 80172 TEST01   STEP STEPID01         TERMINATED      WITH CC 0
- 2017-06-23 19:45:11 HCI112I $HASP112I JOB 80172 TEST01   TERMINATED                WITH CC 0
>

```

If you return to the CICS application you can enter more data (clear, new name, new number

and press F5) and then re run the JCL by right clicking and submitting again.  
You'll see new output with the extra record(s)



The screenshot shows a console window with three tabs: 'Problems', 'Console', and 'EBP Server'. The 'Console' tab is active, displaying a table of job status and a list of job output records.

JOB ID	JOB NAME	CLASS	TYPE	USER	STATE	SUBMITTED	INITIATED	COMPLETE
80172	TEST01	A	JCL	EBP	TERMINATED	2017-06-23T1...	2017-06-23T19:44:48	2017-06-2...
83372	TEST01	A	JCL	EBP	RUNNING	2017-06-23T1...	2017-06-23T19:51:26	00

```
31 2017-06-23 19:51:26 $HASP135I JOB 83372 TEST01 STEP STEPID01 STARTED
32 2017-06-23 19:51:47 $HASP136I JOB 83372 TEST01 STEP STEPID01 TERMINATED WITH CC 0
33
34 2017-06-23 19:51:47 $HASP112I JOB 83372 TEST01 TERMINATED WITH CC 0
35 2017-06-23 19:51:47 =====
36 2017-06-23 19:51:47 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSPRINT'
37 2017-06-23 19:51:47 =====
38 2017-06-23 19:51:47 $HASP174I OUTPUT FROM STEP 'STEPID01' DD NAME 'SYSOUT'
39 name: IAN : 000000123
40 name: ART : 000000567
41 sqlcode: 000000100+
42 End of Application
43 End of Program.
```