

Exam : **MCD-Level-1**

Title : MuleSoft Certified Developer -
Level 1 (Mule 4)

Vendor : MuleSoft

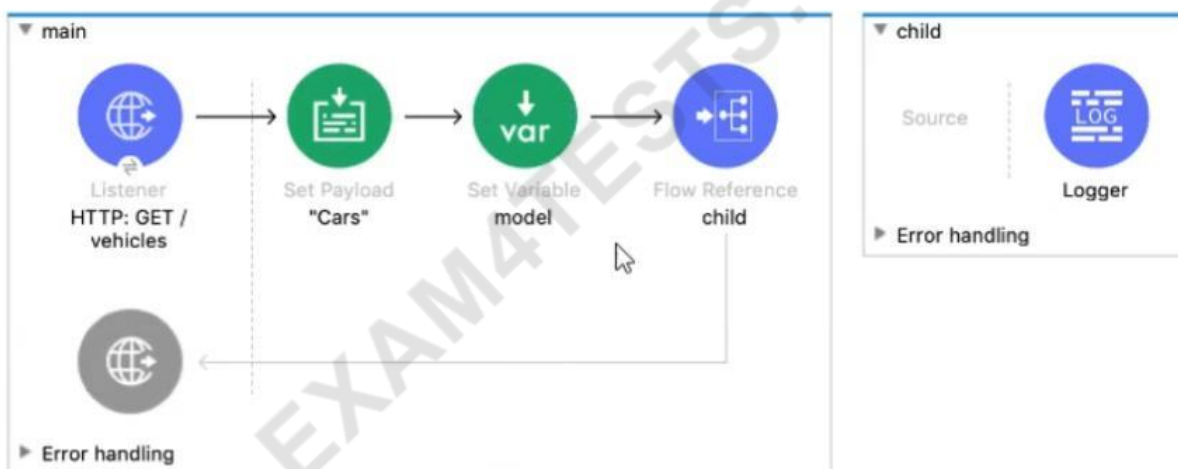
Version : V12.95

NO.1 An app team is developing a mobile banking app. It took them two months to create their own APIs to access transaction information from a central database. The app team later found out that another team had already built an API that accesses the transaction information they need. According to MuleSoft, what organization structure could have saved the app team two months of development time?

- A. Center of Excellence
- B. Center for Enablement
- C. MuleSoft Support Center
- D. Central API Review Board

Answer: B

NO.2 Refer to the exhibits.



The main flow contains a Flow Reference to the child flow.

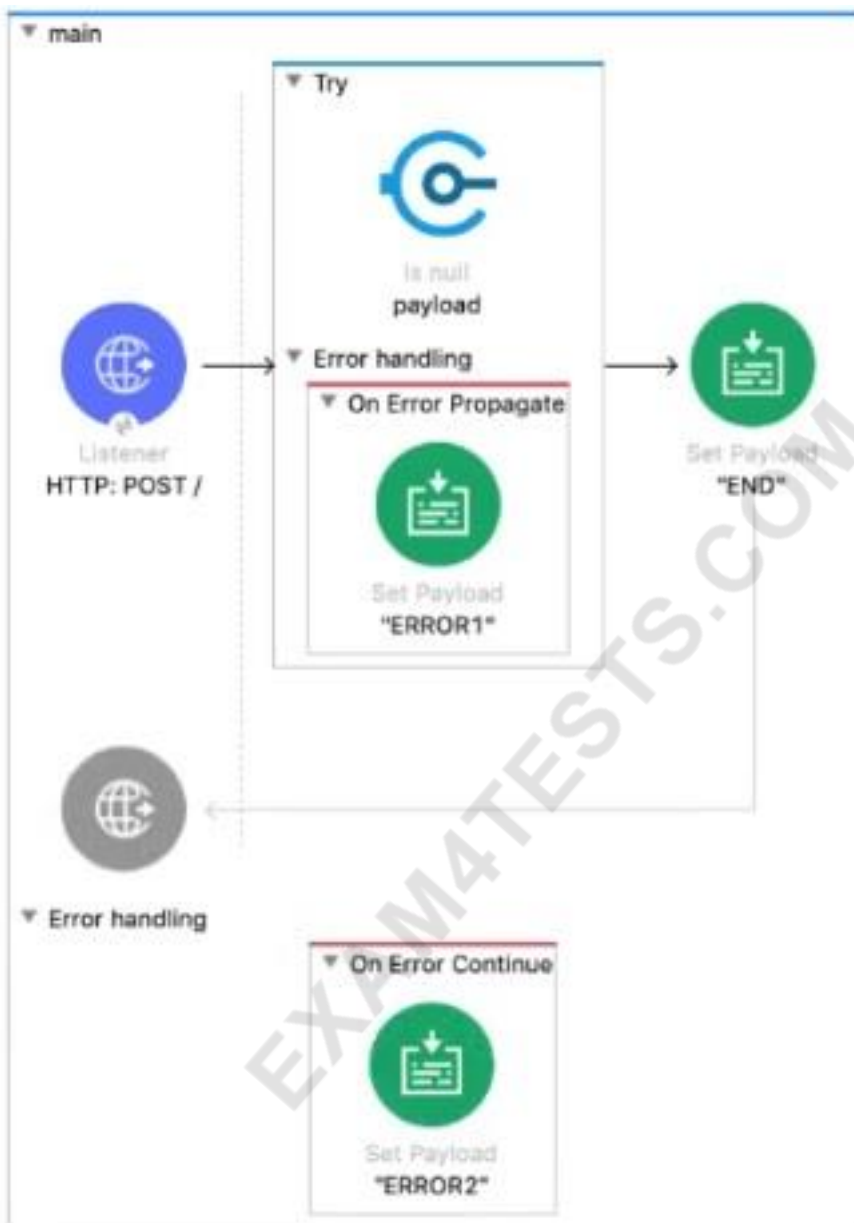
A web client sends a GET request to the main flow's HTTP Listener that includes a make query parameter.

What values are accessible in the child flow?

- A. payload
- B. payload
make query param
- C. payload
model var
- D. payload
make query param model var

Answer: D

NO.3 Refer to the exhibits. A web client sends a POST request to the HTTP Listener and the Validation component in the Try scope throws an error. What response message is returned to the web client?



- A. Validation Error
- B. "END"
- C. "ERROR1"
- D. "ERROR2"**
- E. Validation Error
- F. "END"
- G. "ERROR1"
- H. "ERROR2"

Answer: D

NO.4 Refer to the exhibits. The main flow contains an HTTP Request in the middle of the flow. The HTTP Listeners and HTTP Request use default configurations.

A web client submits a request to the main flow's HTTP Listener that includes query parameters for the pedigree of the piano.

What values are accessible to the Logger component at the end of the main flow?



```
<http:request method="POST" doc:name="POST HTTP /child" url="http://localhost:8081/child">
</http:request>
<logger level="INFO" doc:name="Logger"/>
</flow>

<flow name="child" >
<http:listener doc:name="HTTP POST /child" config-ref="HTTP_Listener_config" path="/child"/>
```

- A. payload
- B. payload pedigree query params
- C. payload producer var
- D. payload pedigree query params producer var

Answer: D

NO.5 Refer to the exhibit.

```
##RAML 1.0
title: Accounts API
version: 1.0

/accounts:
  get:
    description: Get all accounts
    responses:
      200:
        body:
          application/json:
            example:
              id: "48292"
              name: Geordi La Forge
              address: 1 Forge Way, Midgard, CA 95928
              customer_since: "2014-01-04"
              balance: 4829.29
  post:
    description: Create an account
    body:
      application/json:
        example:
          name: Geordi La Forge
          address: 1 Forge Way, Midgard, CA 95928
          customer_since: "2014-01-04"
```

What data is expected by the POST /accounts endpoint?

A)

```
{
  "id": "48292",
  "name": "Geordi La Forge",
  "address": "1 Forge Way, Midgard, CA 95928",
  "customer_since": "2014-01-04",
  "balance": 4829.29
}
```

B)

```
<item>
  <id>48292</id>
  <name>Geordi La Forge</name>
  <address>1 Forge Way, Midgard, CA 95928</address>
  <customer_since>2014-01-04</customer_since>
  <balance>4829.29</balance>
</item>
```

C)

```
<item>
  <name>Geordi La Forge</name>
  <address>1 Forge Way, Midgard, CA 95928</address>
  <customer_since>2014-01-04</customer_since>
  <balance>4829.29</balance>
  <bank_agent_id>48-SJT-282924-KL</bank_agent_id>
</item>
```

D)

```
{
  "name": "Geordi La Forge",
  "address": "1 Forge Way, Midgard, CA 95928",
  "customer_since": "2014-01-04",
  "balance": 4829.29
  "bank_agent_id": "48-SJT-282924-KL"
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

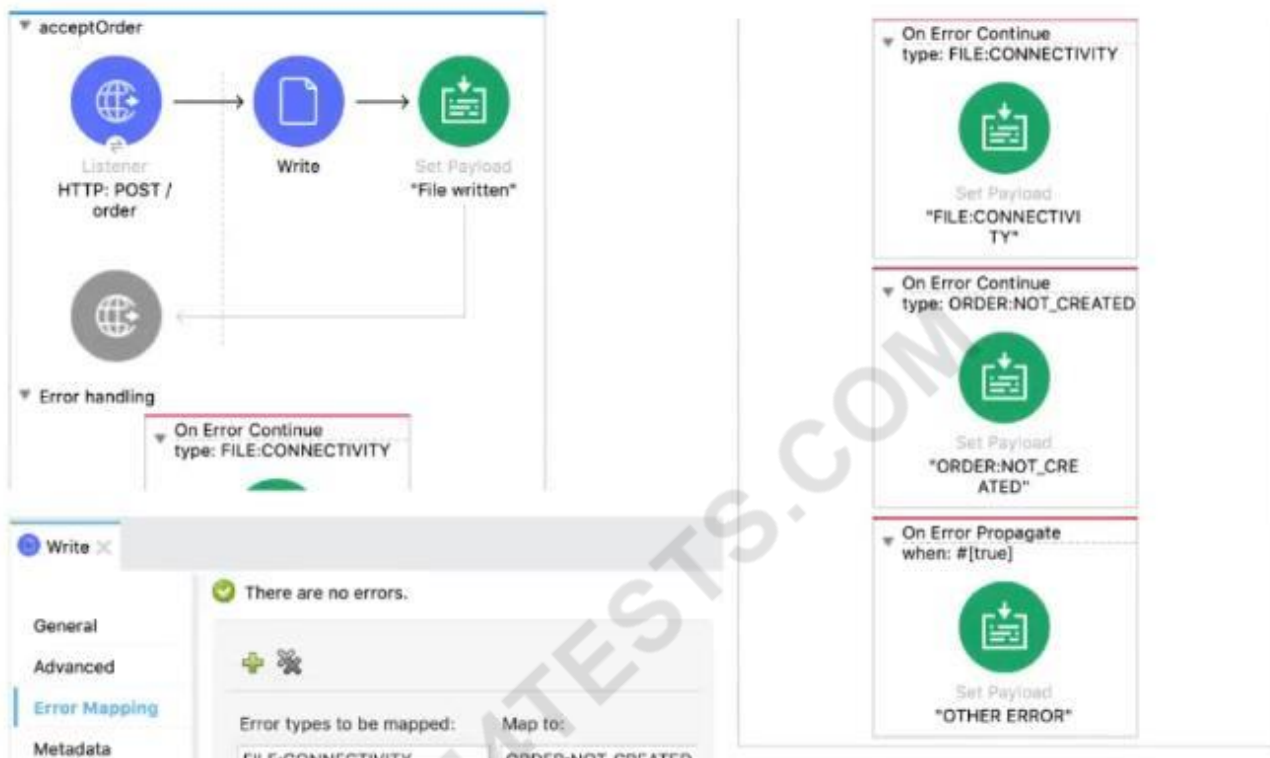
Answer: D

NO.6 What is the correct syntax for a Logger component to output a message with the contents of a JSON Object payload?

- A. The payload is: \$(payload)
- B. #["The payload is: " ++ payload]
- C. The payload is: #[payload]
- D. #["The payload is: " + payload]

Answer: B

NO.7 Refer to the exhibits.



```
<flow name="acceptOrder">
  <http:listener doc:name="HTTP: POST /order" config-ref="HTTP_Listener_config"
    path="/order" allowedMethods="POST">
    <http:error-response>
      <http:body><![CDATA[#[output text/plain --- payload]]]></http:body>
    </http:error-response>
  </http:listener>
  <file:write doc:name="Write" config-ref="File_Config" path="newOrder.json">
    <error-mapping sourceType="FILE:CONNECTIVITY" targetType="ORDER:NOT_CREATED" />
    <file:content><![CDATA[#[output application/json --- payload]]]></file:content>
  </file:write>
  <set-payload value='#["File written"]' doc:name="File written" />
</flow>
```

A web client sends a POST request with the payload {"oid": "1000", "itemid": "AC200", "qty": "4"} to the Mule application. The File Write operation throws a FILE:CONNECTIVITY error. What response message is returned to the web client?

- A. "FILE:CONNECTIVITY"
- B. "ORDER:NOT_CREATED"
- C. "OTHER ERROR"
- D. "File written"

Answer: A

NO.8 A Mule project contains a DataWeave module called MyModule.dwl that defines a function named formatString. The module is located in the project's src/main/resources/modules folder. What is the correct way in DataWeave code to import MyModule using a wildcard and then call the module's formatString function?

- A)


```
%dw 2.0
output application/json
import * from modules.MyModule
---
MyModule.formatString( "annie point" )
```

B)

```
%dw 2.0
output application/json
import * from modules::MyModule
---
MyModule::formatString( "annie point" )
```

C)

```
%dw 2.0
output application/json
import * from modules.MyModule
---
formatString( "annie point" )
```

D)

```
%dw 2.0
output application/json
import * from modules::MyModule
---
formatString( "annie point" )
```

A. Option A

B. Option B

C. Option C

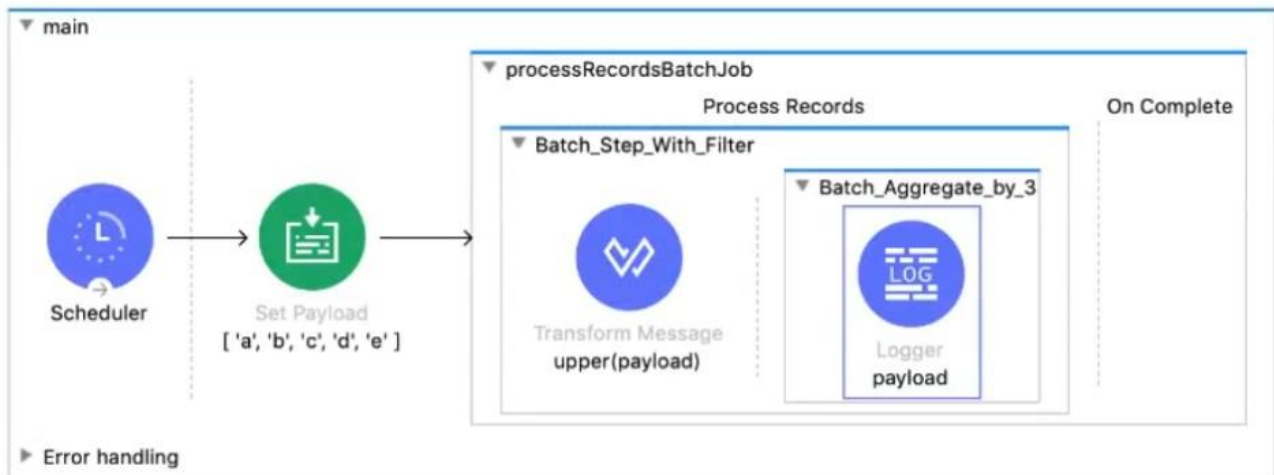
D. Option D

Answer: D

NO.9 A web client sends a request to `http://localhost:8081?dept=sales`. What is the correct DataWeave expression to access the value of dept?

A. `attributes.queryParams.dept`B. `attributes.dept`C. `message.queryParams.dept`D. `vars.dept`**Answer:** A

NO.10 Refer to the exhibits.



```
<flow name="main" >
  <scheduler doc:name="Scheduler" > <scheduling-strategy >
    <fixed-frequency frequency="10000"/> </scheduling-strategy> </scheduler>
    <set-payload value="#[[ 'a', 'b', 'c', 'd', 'e' ]]" doc:name="[ 'a', 'b', 'c', 'd', 'e' ]" />
    <batch:job jobName="processRecordsBatchJob" >
      <batch:process-records >
        <batch:step name="Batch_Step_With_Filter"
          acceptExpression="#[not (payload contains 'b') ]">
          <ee:transform doc:name="upper(payload)"> <ee:message >
            <ee:set-payload ><![CDATA[%dw 2.0
              output application/json
              ---
              upper(payload)]]></ee:set-payload>
          </ee:message></ee:transform>
          <batch:aggregator doc:name="Batch_Aggregate_by_3" size="3">
            <logger level="INFO" doc:name="payload"
              message="#[output application/json --- payload]"/>
          </batch:aggregator>
        </batch:step>
      </batch:process-records>
    </batch:job>
  </flow>
```

The input array of strings is processed by the batch job that processes, filters, and aggregates the values. What is the last message logged by the Logger component after the batch job completes processing?

- A. [["A", "C", "D"], ["E"]]
- B. ["E"]
- C. ["D", "E"]
- D. ["A", "C", "D", "E"]

Answer: A

NO.11 What path setting is required for an HTTP Listener endpoint to route all requests to an APIkit router?

- A. /(*)
- B. /
- C. /()
- D. /'

Answer: D

NO.12 Refer to the exhibit.



In the execution of the Scatter_Gather, the flow1 route completes after 10 seconds and the flow2 route completes after 20 seconds.

How many seconds does it take for the Scatter_Gather to complete?

- A. 0
- B. 10
- C. 20
- D. 30

Answer: C

NO.13 Refer to the exhibit.



The Database Select operation returns five rows from a database. What is logged by the Logger component?

- A. "Array"
- B. "Object"
- C. "LinkedHashMap"
- D. "CaseInsensitiveHashMap"

Answer: C

NO.14 A Utility.dwl file is located in a Mule project at src/main/resources/modules. The Utility.dwl file defines a function named `pascalize` that reformats strings to pascal case.

What is the correct DataWeave to call the `pascalize` function in a Transform Message component?

A)

```
%dw 2.0
output application/json
import modules.Utility
---
pascalize( "max mule" )
```

B)

```
%dw 2.0
output application/json
import modules::Utility
---
pascalize( "max mule" )
```

C)

```
%dw 2.0
output application/json
import modules::Utility
---
Utility::pascalize( "max mule" )
```

D)

```
%dw 2.0
output application/json
import modules.Utility
---
Utility.pascalize( "max mule" )
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

NO.15 A Mule flow has three Set Variable transformers. What global data structure can be used to access the variables?

A. Mule event attributes

B. Mule event message

C. Mule application properties

D. Mule event

Answer: D

NO.16 Refer to the exhibits.

The screenshot shows the MuleSoft IDE interface. On the left, the 'General' tab is active, displaying the configuration for an HTTP Request. The 'Name' field is 'HTTP_Request_config'. Under 'URL Configuration', the 'Base path' is '/'. Under 'Connection', the 'Protocol' is 'HTTP (Default)', the 'Host' is 'mu.learn.mulesoft.com', and the 'Port' is '80'. On the right, a 'config.yaml' file is open, showing the following content:

```
1 training:
2   host: "mu.learn.mulesoft.com"
3   port: "80"
4   basepath: "/"
5   protocol: "HTTP"
```

A Mule application has an HTTP Request that is configured with hardcoded values. To change this, the Mule application is configured to use a properties file named config.yaml.

what valid expression can the HTTP Request host value be set to so that it is no longer hardcoded?

- A. `${training.host}`
- B. `#{training:host}`
- C. `#[training:host]`
- D. `#[training.host]`

Answer: A

NO.17 Refer to the exhibits.

The Set Payload transformer in the addItem subflow uses DataWeave to create an order object. What is the correct DataWeave code for the Set Payload transformer in the createOrder flow to use the addItem subflow to add a router cable with the price of 100 to the order?

- A. `addItemf { payload: { price: "100", item: "router", itemType: "cable" } > }`
- B. `lookupf "addItem", { payload: { price: "100", item: "router", itemType: "cable" } }`
- C. `addItemf { price: "100", item: "router", itemType: "cable" }`
- D. `lookupf "addItem", { price: "100", item: "router", itemType: "cable" }`

Answer: B

NO.18 A flow needs to combine and return data from two different data sources. It contains a Database SELECT operation followed by an HTTP Request operation.

What is the method to capture both payloads so the payload from the second request does not overwrite that from the first?

- A. Put the Database SELECT operation inside a Cache scope
- B. Put the Database SELECT operation inside a Message Enricher scope
- C. Nothing, previous payloads are combined into the next payload
- D. Save the payload from the Database SELECT operation to a variable

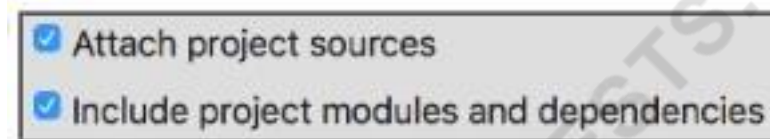
Answer: D

NO.19 A Mule project contains a MySQL Database dependency. The project is exported from Anypoint Studio so it can be deployed to CloudHub.

What export options create the smallest deployable archive that will successfully deploy to CloudHub?

What export option create their smallest deployable archive that will successfully deploy to CloudHub?

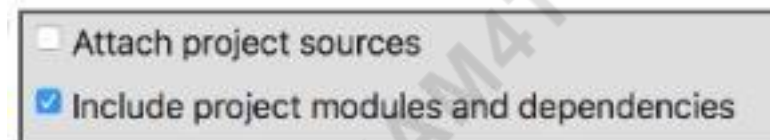
A)



☒ Attach project sources

☒ Include project modules and dependencies


B)



☐ Attach project sources

☒ Include project modules and dependencies


C)



☒ Attach project sources

☐ Include project modules and dependencies

D)



☐ Attach project sources

☐ Include project modules and dependencies

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

NO.20 A Database On Table Row listener retrieves data from a CUSTOMER table that contains a primary key userjcd column and an increasing kxjin_date_time column. Neither column allows

duplicate values.

How should the listener be configured so it retrieves each row at most one time?

- A. Set the watermark column to the bgin_date_time column
- B. Set the target value to the last retrieved login_date_time value
- C. Set the target value to the last retrieved user_jd value
- D. Set the watermark column to the user_Id column

Answer: A

NO.21 An On Table Row Database listener retrieves data from a table that contains record_id, an increasing numerical column.

How should the listener be configured so it retrieves new rows at most one time?

- A. Set the target to store the last retrieved record_id value
- B. Set the ObjectStore to store the last retrieved record_id value
- C. Set the target to the record_id column
- D. Set the watermark column to the record id column

Answer: D

NO.22 A function named newProdCode needs to be defined that accepts two input parameters, an integer value for itemID and a string value for productCategory, and returns a new product code. What is the correct DataWeave code to define the newProdCode function?

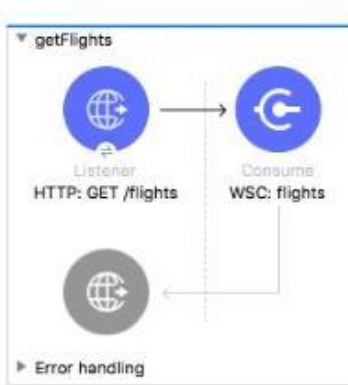
- A. `fun newProdCode(itemID: Number, productCategory: String) -> "PC-" ++ productCategory ++ (itemID as String)`
- B. `fun newProdCode(itemID: Number, productCategory: String) = "PC-" ++ productCategory ++ (itemID as String)`
- C. `function newProdCode(itemID: Number, productCategory: String) = "PC-" ++ productCategory ++ (itemID as String)`
- D. `var newProdCode(itemID: Number, productCategory: String) -> "PC-" ++ productCategory ++ (itemID as String)`

Answer: D

NO.23 Refer

to the exhibits. A web client submits a request to `http://localhost:8081/flights?destination=SFO` and the Web Service Consumer throws a WSC:BAD_REQUEST error.

What is the next step to fix this error?



```

.....
Message                : Cannot build default body request for operation [findFlight], the operation requires input
parameters.
Error type              : WSC:BAD_REQUEST
Element                 : 10.02.06-soaperrorFlow/processors/0 @ 10.02.06-soaperror:10.02.06-soaperror.xml:21 (Consume)
Element XML             : <wsc:consume doc:name="Consume" doc:id="49a84a74-2848-4a65-b93f-dcbf59fd4412" config-
ref="Web_Service_Consumer_Config" operation="findFlight"></wsc:consume>

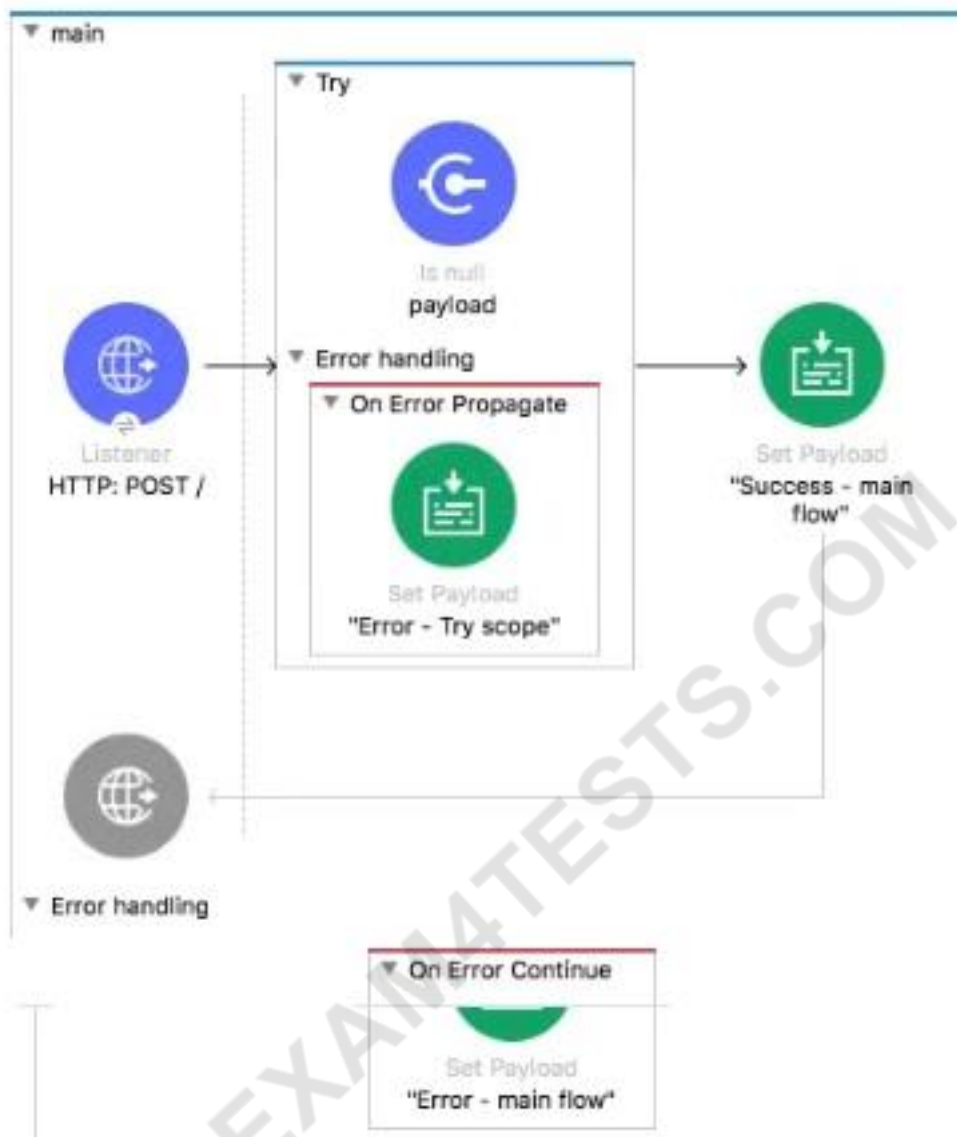
```

(set debug level logging or '-Dmule.verbose.exceptions=true' for everything)

- A. Set a header In the Consume operation equal to the destination query parameter
- B. set a SOAP payload before the Consume operation that contains the destination query parameter
- C. set a property in the Consume operation equal to the destination query parameter
- D. set a JSON payload before the Consume operation that contains the destination query parameter

Answer: B

NO.24 Refer to the exhibits.



```
<flow name="main">
  <http:listener doc:name="HTTP: POST /" config-ref="HTTP_Listener_config" path="/" />
  <try doc:name="Try" >
    <validation:is-null doc:name="payload" value="#[payload]" message="Validation Error"/>
    <error-handler >
      <on-error-propagate enableNotifications="true" logException="true" doc:name="On Error Propagate">
        <set-payload value="Error - Try scope" doc:name='Error - Try scope' />
      </on-error-propagate>
    </error-handler>
  </try>
  <set-payload value="Success - main flow" doc:name='Success - main flow' />
  <error-handler >
    <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue" >
      <set-payload value="Error - main flow" doc:name='Error - main flow' />
    </on-error-continue>
  </error-handler>
</flow>
```

The Validation component in the Try scope throws an error.

What response message is returned to a client request to the main flow's HTTP Listener?

The Validation component in the Try scope throws an error. What response message is returned to a client request to the main flow's HTTP Listener?

A. Success - main flow

B. Error - main flow

C. Error - Try scope

D. Validation Error

Answer: D

NO.25 Refer to the exhibit.



```
<flow name="validatePayload" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_listener_config" path="/" />
  <set-payload value="Before" doc:name="Before" />
  <validation:is-null doc:name="payload" value="#[payload]" message="Validation Error"/>
  <set-payload value="After" doc:name="After" />
</flow>
```

What is the response to a web client request to

A. After

B. before

C. Validation Error

D. null

Answer: A

NO.26 Refer to the exhibit.

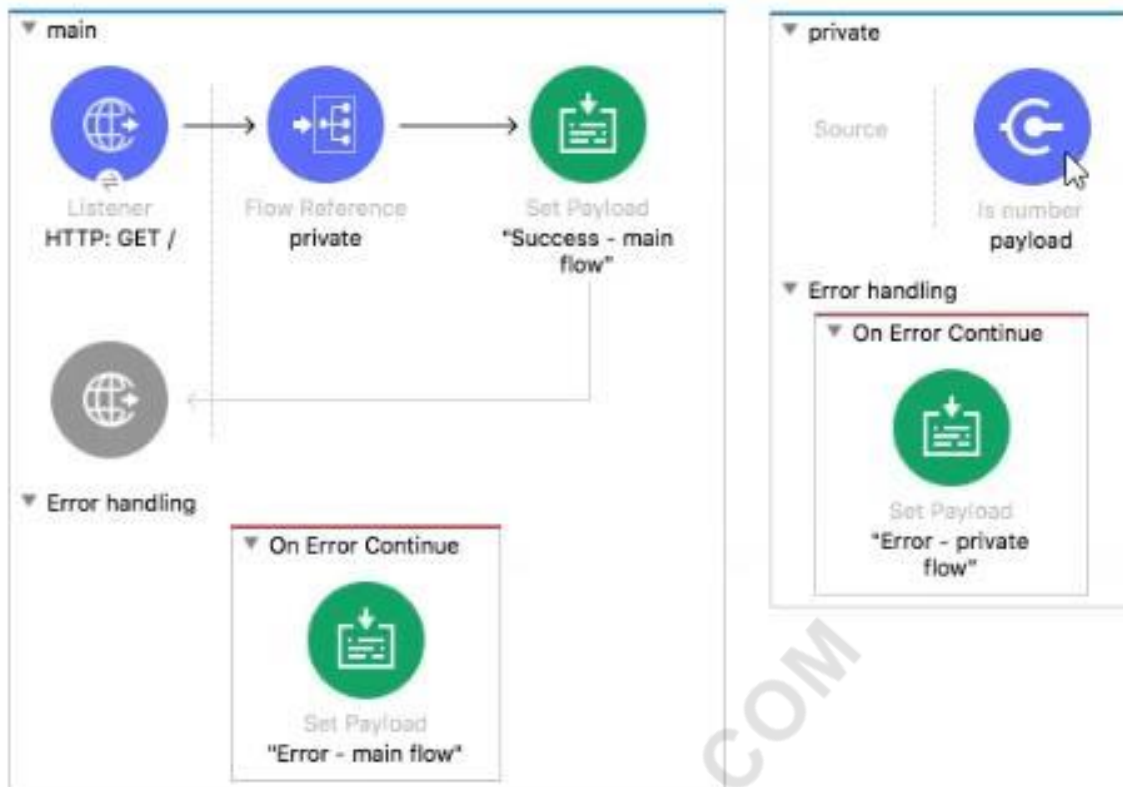


A Mule event is composed of a hierarchy of objects. Where in the hierarchy are variables stored?

- A.** Mule event
- B.** Mule message payload
- C.** Mule message
- D.** Mule message attributes

Answer: C

NO.27 Refer to the exhibits.



```

<flow name="main" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <flow-ref doc:name="private" name="private"/>
  <set-payload value="Success - main flow" doc:name="'Success - main flow'" />
  <error-handler>
    <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue" >
      <set-payload value="Error - main flow" doc:name="'Error - main flow'" />
    </on-error-continue>
  </error-handler>
</flow>

<flow name="private" >
  <validation:is-number numberType="INTEGER" doc:name="payload" value="#[payload]"
  message="Validation Error" />
  <error-handler >
    <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue" >
      <set-payload value="Error - private flow" doc:name="'Error - private flow'" />
    </on-error-continue>
  </error-handler>
</flow>

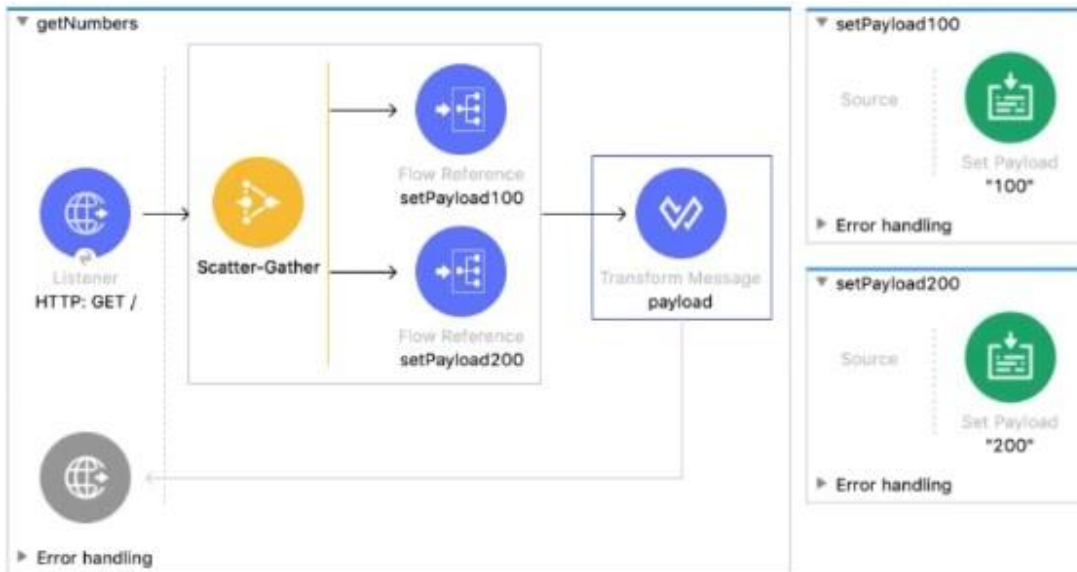
```

The Validation component in the private flow throws an error. What response message is returned to a client request to the main flow's HTTP Listener?

- A. Error - private flow
- B. Error - main flow
- C. Success - main flow
- D. Validation Error

Answer: C

NO.28 Refer to the exhibits.



```
<flow name="getNumbers" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <scatter-gather doc:name="Scatter-Gather" >
    <route >
      <flow-ref doc:name='setPayload100' name='setPayload100' />
    </route>
    <route >
      <flow-ref doc:name="setPayload200" name="setPayload200" />
    </route>
  </scatter-gather>
  <ee:transform doc:name="payload">
    <ee:message >
      <ee:set-payload ><![CDATA[%dw 2.0
output application/json
---
payload]]></ee:set-payload>
    </ee:message>
  </ee:transform>
</flow>
<flow name="setPayload100" ><set-payload value='#["100"]' doc:name='"100"' /></flow>
<flow name="setPayload200" ><set-payload value='#["200"]' doc:name='"200"' /></flow>
```

Each route in the Scatter-Gather sets the payload to the number shown in the label. What response is returned to a web client request to the HTTP Listener?

A)

```
[  
  {  
    "attributes": ...,  
    "payload": "100"  
  },  
  {  
    "attributes": ...,  
    "payload": "200"  
  }  
]
```

B)

```
{  
  "0": "100",  
  "1": "200"  
}
```

C)

```
["100", "200"]
```

D)


```
{
  "0": {
    "attributes": ...,
    "payload": "100"
  },
  "1": {
    "attributes": ...,
    "payload": "200"
  }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D**

Answer: C

NO.29 What valid RAML retrieves details on a specific by its orderId as a URL parameter?

A)

```
/orders:
  /{orderId}:
    get:
```

B)

```
/orders:
  /orderId:
    get:
```

C)

```
/orders:
  get:
    /{orderId}:
```

D)

```

/orders:
  get:
    /orderId:

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NO.30 An API specification is designed using RAML. What is the next step to create a REST Connector from this API specification?

- A. Download the API specification and build the interface using APIkit
- B. Publish the API specification to Any point Exchange
- C. Implement the API specification using flow designer in Design Center
- D. Add the specification to a Mule project's src/main/resources/api folder

Answer: B

NO.31 Refer to the exhibits. A company has defined this Book data type and Book example to be used in APIs. What is valid RAML for an API that uses this Book data type and Book example?

<pre> #%RAML 1.0 DataType # bookDataType.raml type: object properties: ID?: integer title: string author: string publisher?: string year: integer ISBN: type: string required: true </pre>	<pre> #%RAML 1.0 NamedExample # bookExample.raml bookExample: ID: 101 title: Shakespeare author: Encyclopaedia Britannica publisher: John Wiley & Sons year: 2007 ISBN: "0471767840" </pre>
---	--

A)

```
#%RAML 1.0
title: Books

Book: BookDataType.raml

/books:
  post:
    body:
      application/json:
        type: Book
        examples:
          input: BookExample.raml
    responses:
      201:
        body:
          application/json:
            example:
              message: Book added
```

B)

```
#%RAML 1.0
title: Books

Book: !include BookDataType.raml

/books:
  post:
    body:
      application/json:
        type: Book
        examples:
          input: !include BookExample.raml
    responses:
      201:
        body:
          application/json:
            example:
              message: Book added
```

C)

```
#%RAML 1.0
title: Books

types:
  Book: ABC/DataTypes/BookDataType.raml

/books:
  post:
    body:
      application/json:
        type: Book
        examples:
          input: ABC/Examples/BookExample.raml
    responses:
      201:
        body:
          application/json:
            example:
              message: Book added
```

D)

```
%RAML 1.0
title: Books

types:
  Book: !include BookDataType.raml

/books:
  post:
    body:
      application/json:
        type: Book
        examples:
          input: !include BookExample.raml
    responses:
      201:
        body:
          application/json:
            example:
              message: Book added
```

A. Option A

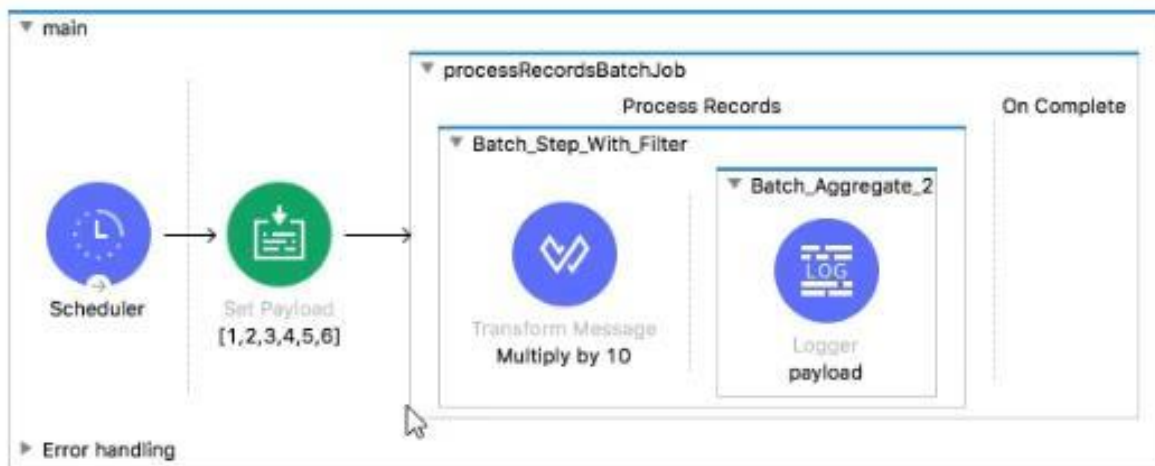
B. Option B

C. Option C

D. Option D

Answer: A

NO.32 Refer to the exhibit. The Batch Job processes, filters and aggregates records, What is the expected output from the Logger component?



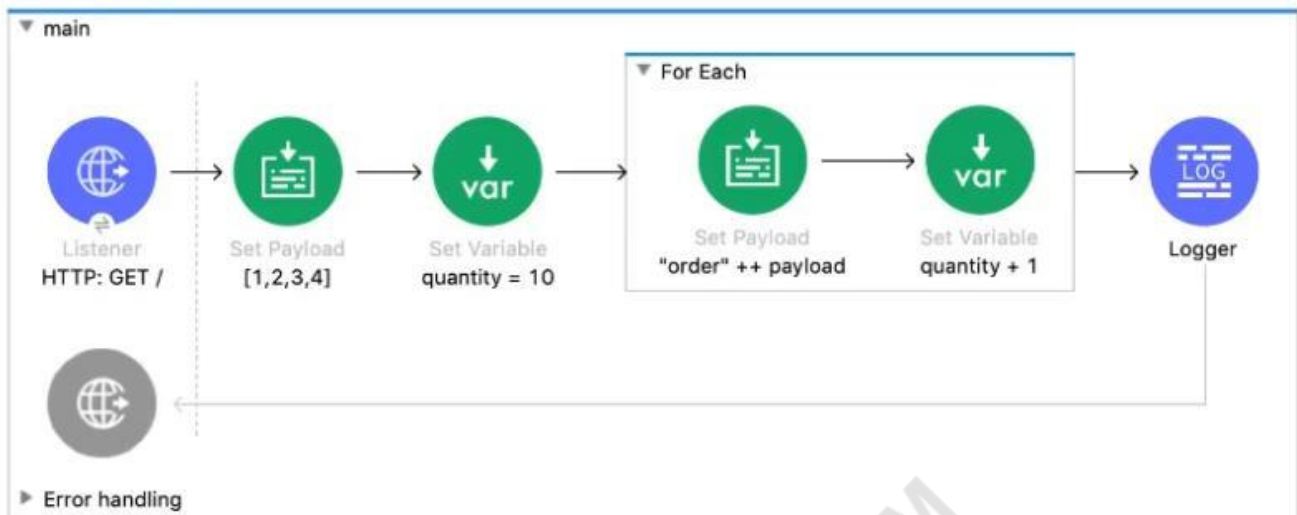
```
<flow name="main" >
  <scheduler doc:name="Scheduler" > <scheduling-strategy >
    <fixed-frequency frequency="10000"/></scheduling-strategy> </scheduler>
    <set-payload value="#[[1,2,3,4,5,6]]" doc:name="[1,2,3,4,5,6]" />
    <batch:job jobName="processRecordsBatchJob" >
      <batch:process-records >
        <batch:step name="Batch_Step_With_Filter" acceptExpression="#[(payload mod 2) == 0]">
          <ee:transform doc:name="Multiply by 10"><ee:message >
            <ee:set-payload ><![CDATA[%dw 2.0
              output application/java

              payload * 10]]></ee:set-payload>
          </ee:message></ee:transform>
          <batch:aggregator doc:name="Batch_Aggregate_2" size="2">
            <logger level="INFO" doc:name="payload" message="#[payload]" />
          </batch:aggregator>
        </batch:step>
      </batch:process-records>
    </batch:job>
  </flow>
```

- A. [10. 20, 30. 40, 50, 60]
- B. [10. 20] [30, 40] [50, 60]
- C. [20, 40, 60]
- D. [20. 40] [60]

Answer: D

NO.33 Refer to the exhibits.



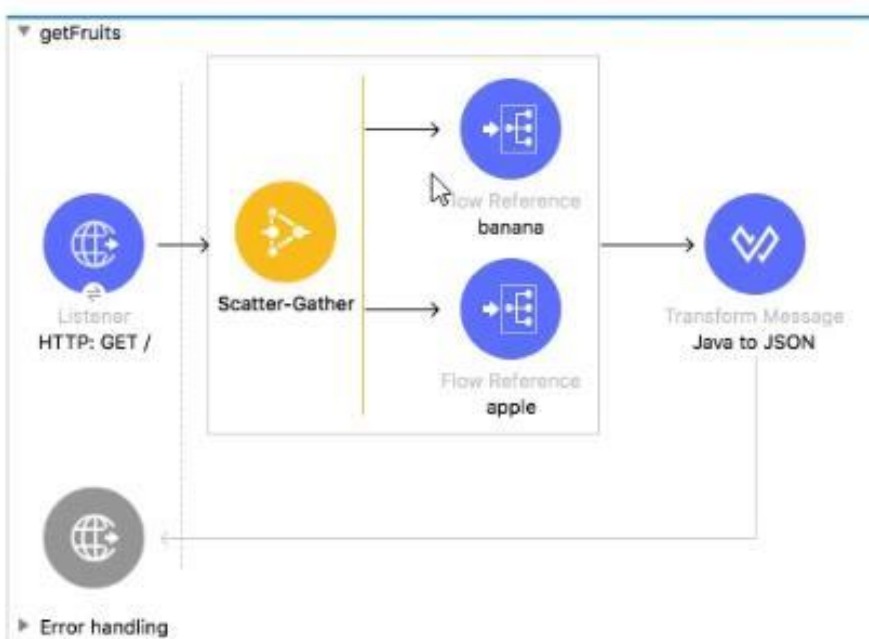
```
<flow name="main" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" allowedMethods="GET"/>
  <set-payload value="#[[1,2,3,4]]" doc:name="[1,2,3,4]" />
  <set-variable value='10' doc:name="quantity = 10" variableName="quantity" />
  <foreach doc:name="For Each" >
    <set-payload value='#["order" ++ payload]' doc:name='"order" ++ payload' />
    <set-variable value="#[vars.quantity + 1]" doc:name="quantity + 1" variableName="quantity" />
  </foreach>
  <logger level="INFO" doc:name="Logger" message='#[[ payload, vars.quantity ]]' />
</flow>
```

What payload and quantity are logged at the end of the main flow?

- A. [[1,2,3,4], 14]
- B. [[order1, order2, order3, order4], 14]
- C. [[1,2,3,4], 10]
- D. [order1order2order3order4,14]

Answer: A

NO.34 Refer to the exhibits.



```

<flow name="getFruits">
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <scatter-gather doc:name="Scatter-Gather">
    <route> <flow-ref doc:name="banana" name="banana"/> </route>
    <route> <flow-ref doc:name="apple" name="apple"/> </route>
  </scatter-gather>

  <sub-flow name="apple" ><set-payload value="Apple" doc:name="Apple" /></sub-flow>
  <sub-flow name="banana"><set-payload value="Banana" doc:name="Banana" /></sub-flow>

```

A
web client submits a request to http://localhost:8081. What is the structure of the payload at the end of the flow?

A)

```
['Banana', 'Apple']
```

B)

```
{
  "0": "Banana",
  "1": "Apple"
}
```

C)

```
{
  "attributes": ...,
  "payload": ['Banana', 'Apple']
}
```

D)

```
{
  "0": {
    "attributes": ...,
    "payload": "Banana"
  },
  "1": {
    "attributes": ...,
    "payload": "Apple"
  }
}
```

A. Option A

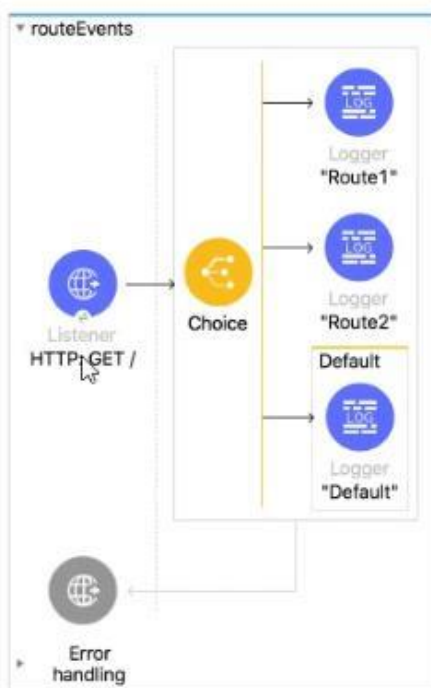
B. Option B

C. Option C

D. Option D

Answer: A

NO.35 Refer to the exhibit.



```

<flow name="routeEvents" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_listener_config"
    path="/" />
  <choice doc:name="Choice" >
    <when expression="true" >
      <logger level="INFO" doc:name="Route1" message="Route1"/>
    </when>
    <when expression="true" >
      <logger level="INFO" doc:name="Route2" message="Route2"/>
    </when>
    <otherwise >
      <logger level="INFO" doc:name="Default" message="Default"/>
    </otherwise>
  </choice>
</flow>
  
```

All three of the condition for the Choice router are true. What log messages are written?

- A. Route 1
- B. Route2
- C. Route1, Route2
- D. Route1, Route2, Default

Answer: A

NO.36 What execution model is used by For Each and Batch Job scopes?

- A. For Each is single-threaded and Batch Job is multi-threaded
- B. Both are single-threaded
- C. Both are multi-threaded
- D. Batch Job is single-threaded and For Each Is multi-threaded

Answer: A

NO.37 A

web client submits a request to `http://localhost:8081?firstName=john`. What is the correct DataWeave expression to access the `firstName` parameter?

- A. `#[attributes.queryParams.firstName]`
- B. `#[message.queryParams.hrstName]`
- C. `#[message.inboundProperties.'http.query.params'.firstName]`
- D. `#[attributes.'http.query.params'.firstName]`

Answer: A

NO.38 Refer to the exhibit.

```
#%RAML 1.0
title: Accounts API

/accounts:
  get:
    queryParameters:
      account_type:
        required: true
        enum:
          - "retail"
          - "commercial"
      industry:
        required: true
        enum:
          - "finance"
          - "construction"
          - "government"
```

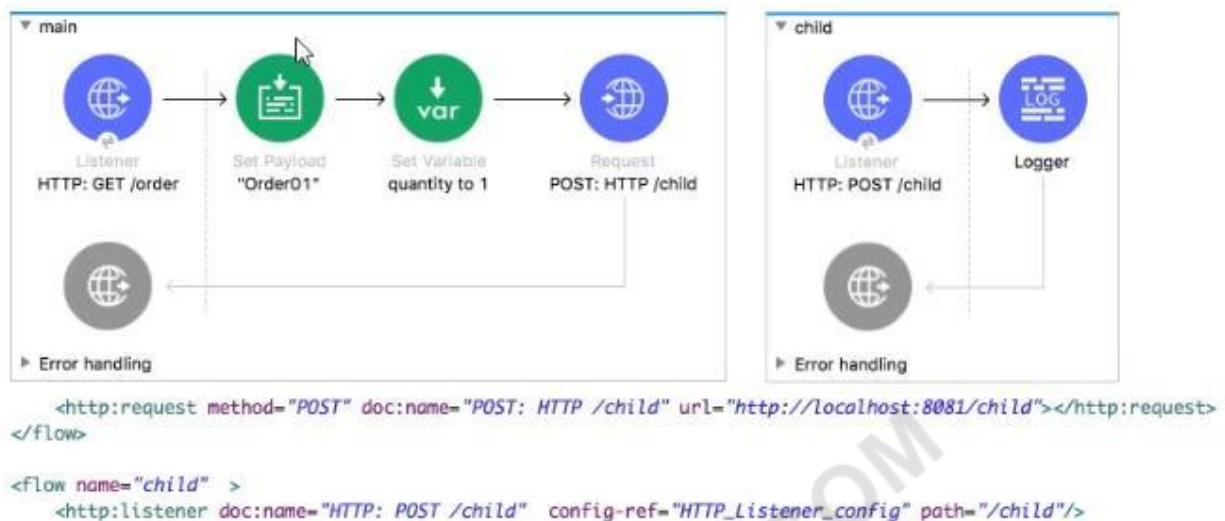
This RAML specification includes a resource and method to retrieve accounts by account_type and industry.

What is the correct URI to get all retail finance accounts?

- A. /accounts/retail/finance
- B. /accounts?account_type=retail&industry=finance
- C. /accounts/account_type=retail/industry=finance
- D. /accounts?account_type:retail&industry:finance

Answer: C

NO.39 Refer to the exhibits.



The main flow contains an HTTP Request. The HTTP Listeners and HTTP Request use default configurations.

What

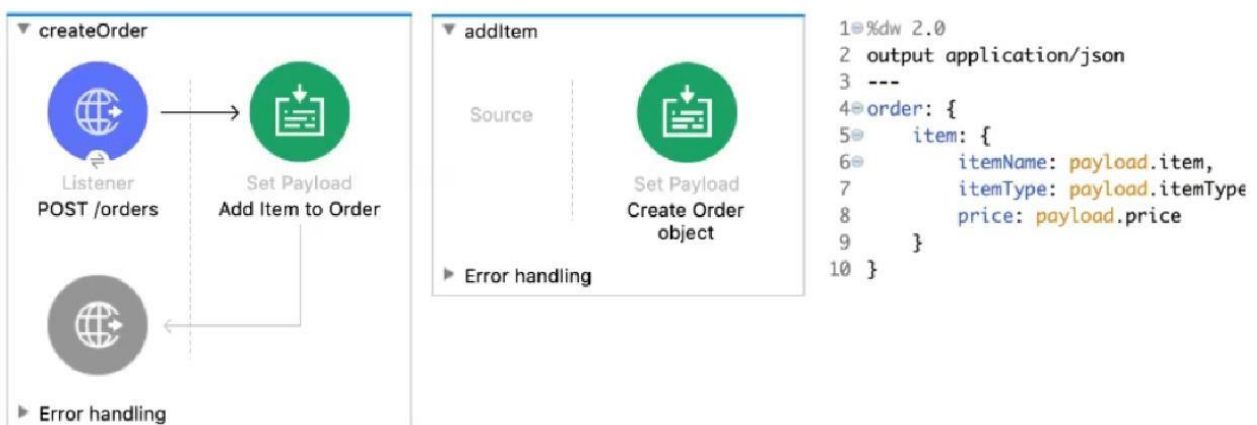
values are accessible in the child flow after a web client submits a request to `http://localhost:8081/order? col or = red?`

- A. payload
- B. payload
quantity var
- C. payload
color query param
- D. payload
quantity var color query param

Answer: A

NO.40 Refer to the exhibits. The Set Payload transformer in the addItem child flow uses DataWeave to create an order object.

What is the correct DataWeave code for the Set Payload transformer in the createOrder flow to use the addItem child flow to add a router call with the price of 100 to the order?



- A. `lookup("addItem", { price: "100", item: "router", itemType: "cable" })`
- B. `addItem({ payload: { price: "100", item: "router", itemType: "cable" } })`

C. `lookup("addItem", { payload: { price: "100", item: "router", itemType: "cable" } >)`

D. `addItem({ price: "100", item: "router", itemType: "cable" })`

Answer: C

NO.41 Refer to the exhibit.



The main flow contains a Flow Reference for the child flow.

What

values are accessible in the child flow after a web client submits a request to `http://localhost:8081/order?`

`color=red?`

A. payload

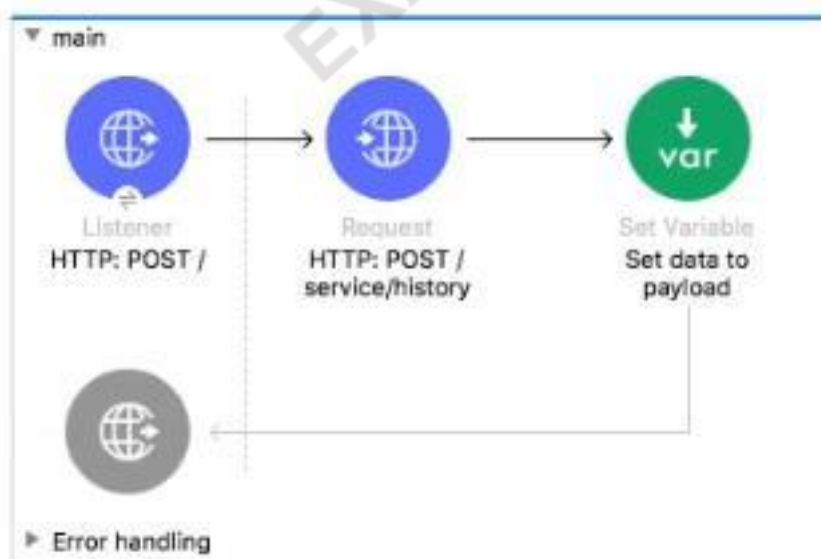
B. payload
quantity var

C. payload
color query param

D. payload
quantity var color query param

Answer: D

NO.42 Refer to the exhibit.



What can be added to the flow to persist data across different flow executions?

- A. Key/value pairs in the ObjectStore
- B. Properties of the Mule runtime flow object
- C. properties of the Mule runtime app object
- D. session variables

Answer: A

NO.43 A Mule application contains a global error handler configured to catch any errors.

Where must the global error handler be specified so that the global error handler catches all errors from flows without their own error handlers?

- A. A configuration properties file
- B. Nowhere, the global error handler is automatically used
- C. A global element
- D. The pom.xml file

Answer: C

NO.44 Refer to the exhibit.

The error occurs when a project is run in Anypoint Studio. The project, which has a dependency that is not in the MuleSoft Maven repository, was created and successfully run on a different computer.

What is the next step to fix the error to get the project to run successfully?

```
[WARNING] The POM for com.mulesoft.training:mock-servers:jar:1.1.2 is missing, no dependency information available
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 0.253 s
[INFO] Finished at: 2018-06-14T10:52:39-07:00
[INFO] Final Memory: 190M/867M
[INFO] -----
[ERROR] Failed to execute goal on project app-server: Could not resolve dependencies for project com.mycompany:app-server:mule-application:1.0.0-SNAPSHOT: Failure to find com.mulesoft.training:mock-servers:jar:1.1.2 in https://repository.mulesoft.org/nexus-ee/content/repositories/releases-ee/ was cached in the local repository, resolution will not be reattempted until the update interval of MuleRepository has elapsed or updates are forced -> [Help 1]
```

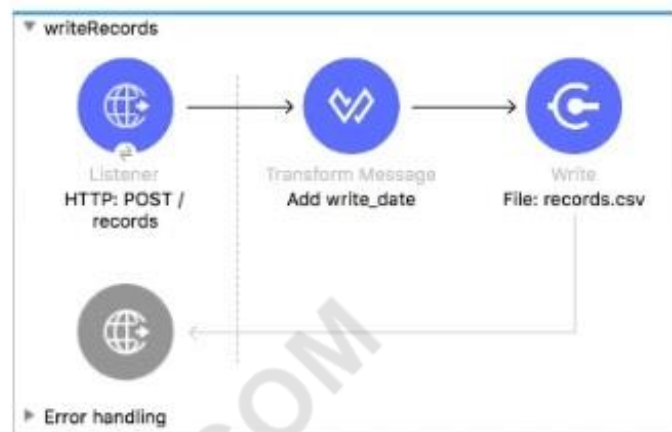
- A. Edit the dependency in the Mule project's pom.xml file
- B. Install the dependency to the computer's local Maven repository
- C. Deploy the dependency to MuleSoft's Maven repository
- D. Add the dependency to the MULE_HOME/bin folder

Answer: B

NO.45 Refer to the exhibits.

Payload

```
{
  "transaction_id": "SS-4848-44KK-4SYQ",
  "account_id": "KA-382-SKD44",
  "name": "Max Mule",
  "position": "sell"
}
```



```
<flow name="writeRecords" >
  <http:listener doc:name="HTTP: POST /records" config-ref="HTTP_Listener_config"
    path="/records" allowedMethods="POST"/>
  <ee:transform doc:name="Add write_date">
    <ee:message >
      <ee:set-payload ><![CDATA[%dw 2.0
        output application/json
        ---
        payload ++ {"write_date": now()}]]>
      </ee:set-payload>
    </ee:message>
  </ee:transform>
  <file:write doc:name="File: records.csv" path="file-store/records.csv">
    <file:content ><![CDATA[#payload]]></file:content>
  </file:write>
</flow>
```

What is written to the records.csv file when the flow executes?

- A. The JSON payload
- B. An error message
- C. Nothing
- D. The payload convert to CVS

Answer: A

NO.46 Refer to the exhibit.


```

#%RAML 1.0
title: ACME Telecom API
version: 1.0

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            example: |
              [
                {
                  "plan_type": "Super Saver 500",
                  "plan_details": "all-inclusive",
                  "monthly_discount": 0.10
                },
                {
                  "plan_type": "Business Plus 1000",
                  "plan_details": "business package",
                  "monthly_discount": 0.20
                }
              ]

```

The API needs to be updated using the company-wide standard for the Plan data type. The Object data type has already been published in Anypoint Exchange with the global reference .

ACME/DataTypes/PlanDataType.raml.

What is a valid RAML specification that reuses the Plan data type?

A)

```

#%RAML 1.0
title: ACME Telecom API
version: 1.0

dataTypes:
  Plan: !include ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !include ACME/Examples/PlanExamples.raml

```

B)


```
##RAML 1.0
title: ACME Telecom API
version: 1.0

types:
  Plan: !reference ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !reference ACME/Examples/PlanExamples.raml
```

C)

```
##RAML 1.0
title: ACME Telecom API
version: 1.0

dataTypes:
  Plan: !reference ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !reference ACME/Examples/PlanExamples.raml
```

D)

```
##RAML 1.0
title: ACME Telecom API
version: 1.0

types:
  Plan: !include ACME/DataTypes/PlanDataType.raml

/plans:
  get:
    responses:
      200:
        body:
          application/json:
            type: Plan[]
            example: !include ACME/Examples/PlanExamples.raml
```

- A. Option A
- B. Option B
- C. Option C

D. Option D**Answer:** D**NO.47** Refer to the exhibit.

```

#%RAML 1.0
title: ACME Airlines
version: 1.0

```

```

/flights:
  get:
    responses:
      200:
      404:

/airline:
  get:
    queryParameters:
      code: string
    responses:
      200:
      404:

/accounts:
  get:
    responses:
      200:
      404:
  post:
    responses:
      201:

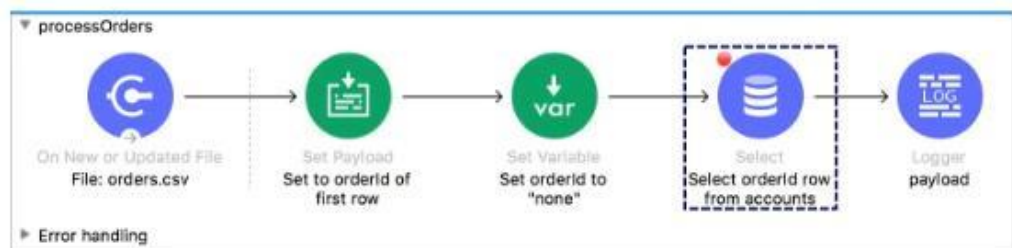
```

How many private flows does APIKIT generate from the RAML specification?

A. 1**B. 2****C. 3****D. 4****Answer:** C**NO.48** Refer to the exhibits.

orders.csv

orderId	account
100	partnerA
101	acme.com
102	mybank.com
103	onlineSales



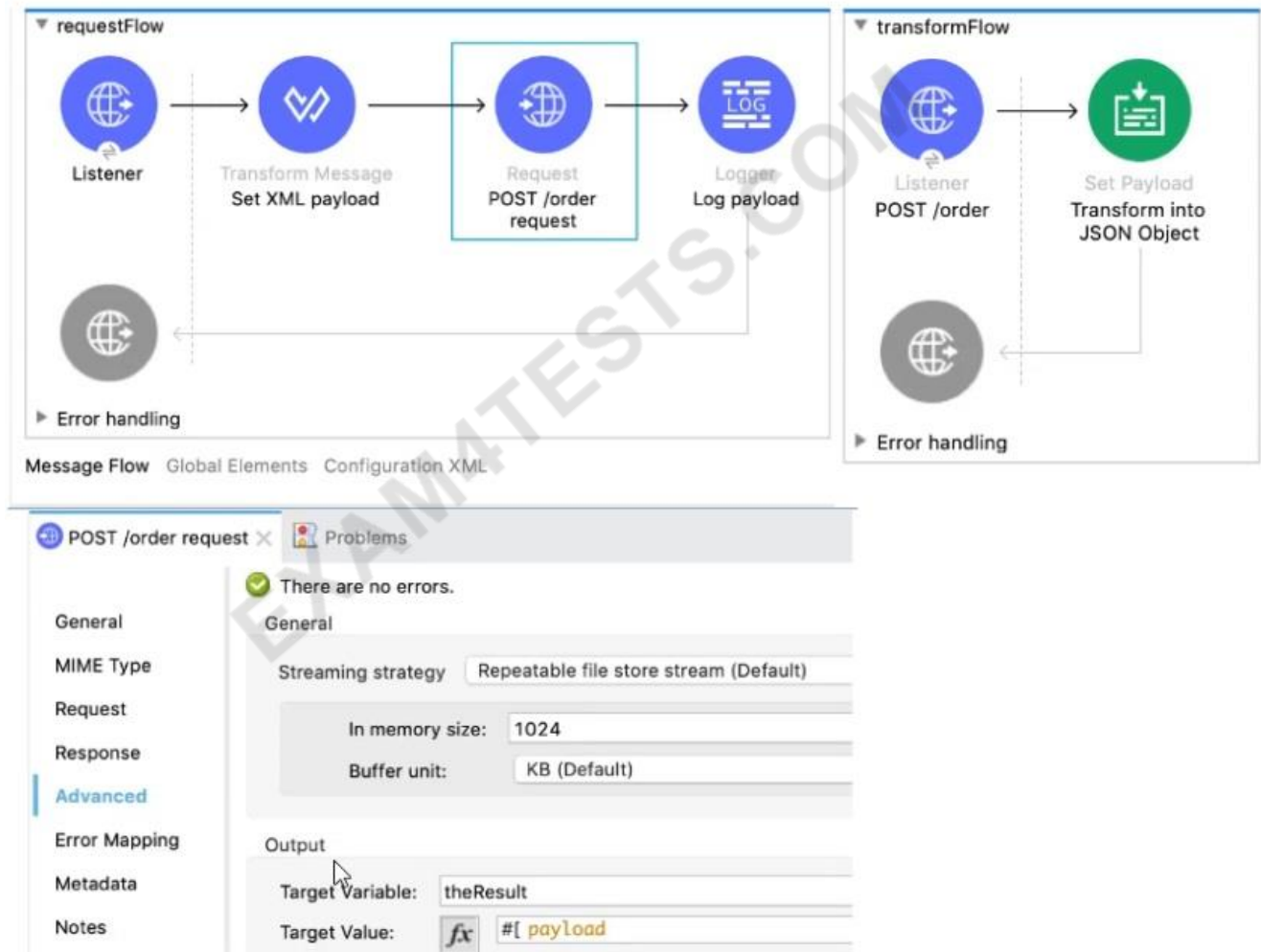
The orders.csv file is read, then processed to look up the orders in a database. The Mule application is

debugged in Any point Studio and stops at the breakpoint.
What is the payload shown in the debugger at this breakpoint?

- A. "none"
- B. The entire CSV file
- C. The database response
- D. 100

Answer: D

NO.49 Refer to the exhibits.



In the requestFlow an HTTP Request operation is configured to send an HTTP request with an XML payload.

The request is sent to the HTTP Listener in the transform Flow.

That flow transforms the incoming payload into JSON format and returns the response to the HTTP request.

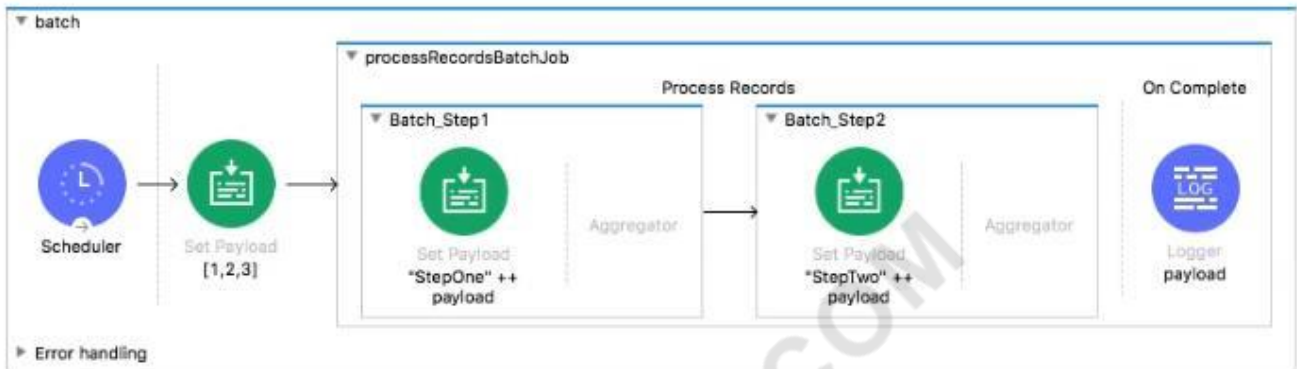
The response of the request is stored in a target variable named the Result.

What is the payload at the Logger component after the HTTP Request?

- A. A non-empty Java object
- B. The original XML payload
- C. null
- D. The returned JSON response

Answer: B

NO.50 Refer to the exhibit.



What is the output payload in the On Complete phase

A. summary statistics with NO record data

B. The records processed by the last batch step: [StepTwo1, StepTwo2, StepTwo3]

C. The records processed by all batch steps: [StepTwostepOne1, stepTwostepOne2, StepTwoStepOne3]

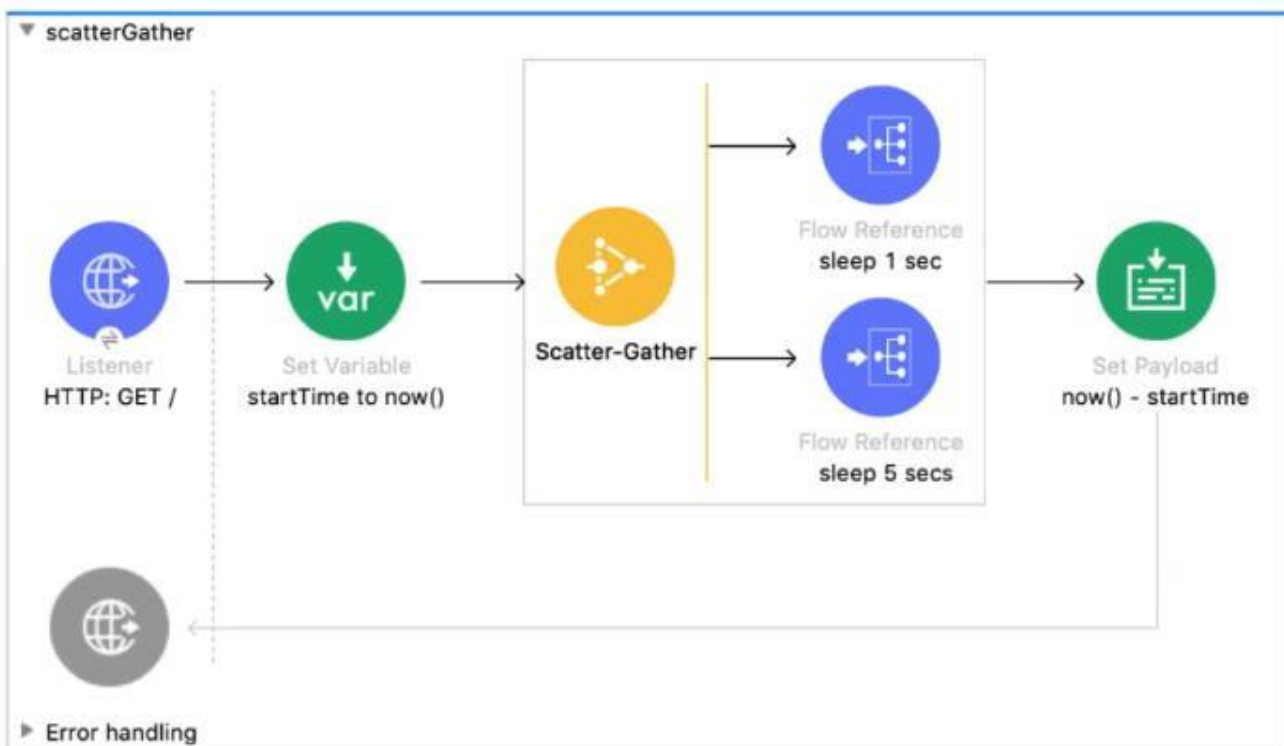
D. The original payload: [1,2,3]

Answer: D

NO.51 Refer to the exhibit.

In the execution of the Scatter-Gather, the "sleep 1 sec" Flow Reference takes about 1 second to complete, and the "sleep 5 sees" Row Reference takes about 5 seconds to complete.

About how many seconds does it take from the time the Scatter-Gather is called until the Set Payload transformer is called?



A. 0

B. 1

C. 5

D. 6

Answer: C

NO.52 A

web client submits a request to `http://localhost:8081/books/0471767840`. The value "0471767840" is captured by a Set Variable transformer to a variable named bookISBN. What is the DataWeave expression to access bookISBN later in the flow?

A. bookISBN

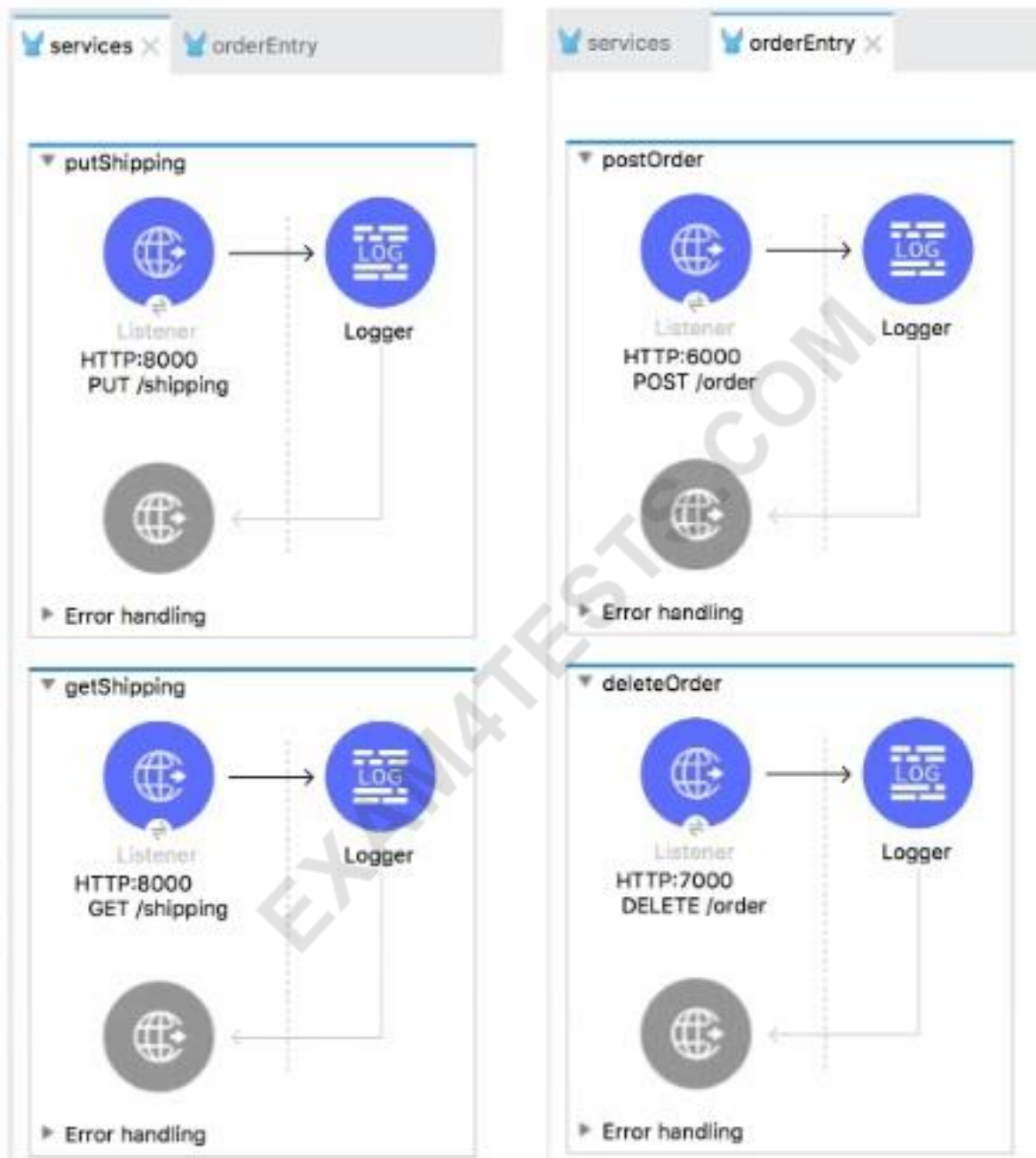
B. attributes.bookISBN

C. flowVars.bookISBN

D. vars. bookISBN

Answer: D

NO.53 Refer to the exhibits.



The two Mule configuration files belong to the same Mule project. Each HTTP Listener is configured with the same host string and the port number, path, and operation values are shown in the display names.

What is the minimum number of global elements that must be defined to support all these HTTP Listeners?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

NO.54 Refer to the exhibit.

<pre> 1 %dw 2.0 2 output application/xml 3 var conductorIds = [592, 921] 4 --- 5 6 7 8 9 10 </pre>	<pre> <?xml version='1.0' encoding='UTF-8'?> <trains> <train> <engineerId>592</engineerId> </train> <train> <engineerId>921</engineerId> </train> </trains> </pre>
--	--

What DataWeave expression transforms the conductorIds array to the XML output?

A)

```

{
  trains: conductorIds map ( (engId, index) ->
    train: {
      engineerId: engId
    }
  )
}

```

B)

```

trains:
  conductorIds map ( (engId, index) ->
    train: {
      engineerId: engId
    }
  )

```

C)

```

trains:
{
  conductorIds map ( (engId, index) ->
    train: {
      engineerId: engId
    }
  )
}

```

D)


```
{
  trains: conductorIds map ( (engId, index) ->
    train: {
      engineerId: engId
    }
  )
}
```

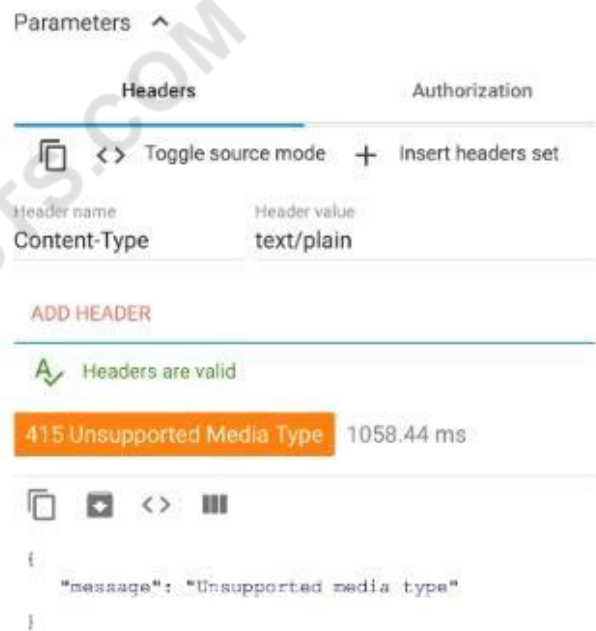
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NO.55 Refer to the exhibit.

```
#%RAHL 1.0
title: ACME Telecom API
version: 1.0
```

```
/accounts:
  post:
    body:
      application/json:
        example: |
          {
            "account_id": "562-123-3456",
            "plan": "all-inclusive"
          }
```



What should be changed to fix the 415 error?

- A. set the response Content-Type header to text/plain
- B. set the response Content-Type header to application/json
- C. Set the request Content-Type header to application/json
- D. set the request Content-Type header to text/plain

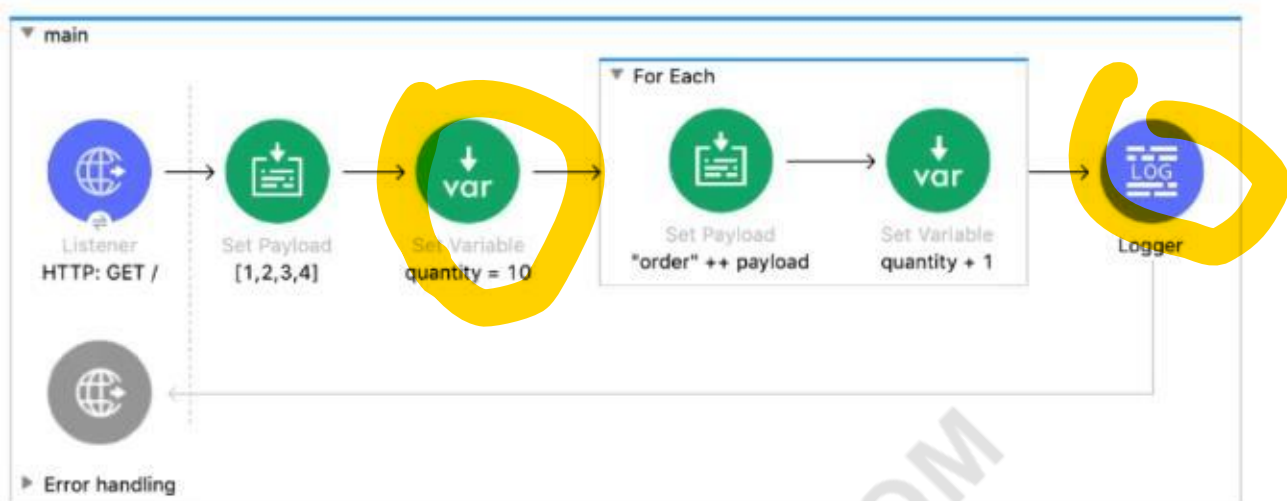
Answer: C

NO.56 According to MuleSoft, what is the first step to create a Modern API?

- A. Create an API specification and get feedback from stakeholders
- B. Performance tune and optimize the backend systems and network
- C. Gather a list of requirements to secure the API
- D. Create a prototype of the API implementation

Answer: A

NO.57 Refer to the exhibits.



```

<flow name="main">
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_listener_config" path="/" allowedMethods="GET"/>
  <set-payload value="#[[1,2,3,4]]" doc:name="[1,2,3,4]" />
  <set-variable value='10' doc:name="quantity = 10" variableName="quantity" />
  <foreach doc:name="For Each">
    <set-payload value="#['order' ++ payload]" doc:name="'order' ++ payload" />
    <set-variable value="#[vars.quantity + 1]" doc:name="quantity + 1" variableName="quantity" />
  </foreach>
  <logger level="INFO" doc:name="Logger" message='#[[ payload, vars.quantity ]]' />
</flow>
  
```

What payload and quantity are logged at the end of the main flow?

- A. [[order1, order2, order3, order4], 14]
- B. [[1,2,3,4], 10]
- C. [[1,2,3,4], 14]
- D. [order1order2order3order4, 14]

Answer: C

NO.58 According to MuleSoft, what is the first step to create a Modern API?

- A. Gather a list of requirements to secure the API
- B. Create an API specification and get feedback from stakeholders
- C. Performance tune and optimize the backend systems and network
- D. Create a prototype of the API implementation

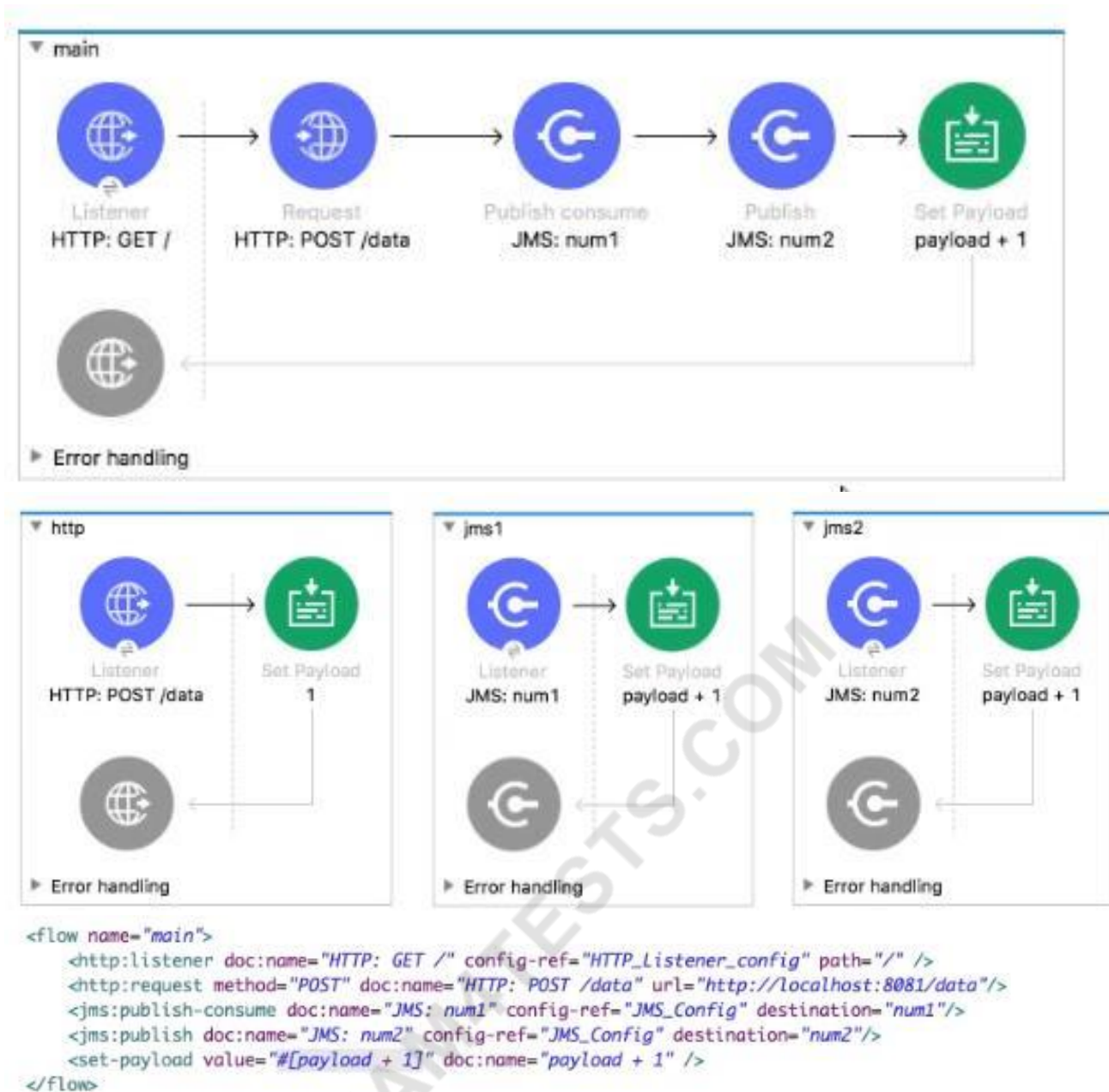
Answer: B

NO.59 In an application network, if the implementation but not the interface of a product API changes, what needs to be done to the other APIs that consume the product API?

- A. The applications associated with the other APIs must be restarted
- B. The applications associated with the other APIs must be recoded
- C. The other APIs must be updated to consume the updated product API
- D. Nothing needs to be changed in the other APIs or their associated applications

Answer: D

NO.60 Refer to the exhibit.



What payload is returned from a request to http://localhost.8081/

Refer

to the exhibits, what payload is returned from a request to http://localhost:8081/?

A. 1

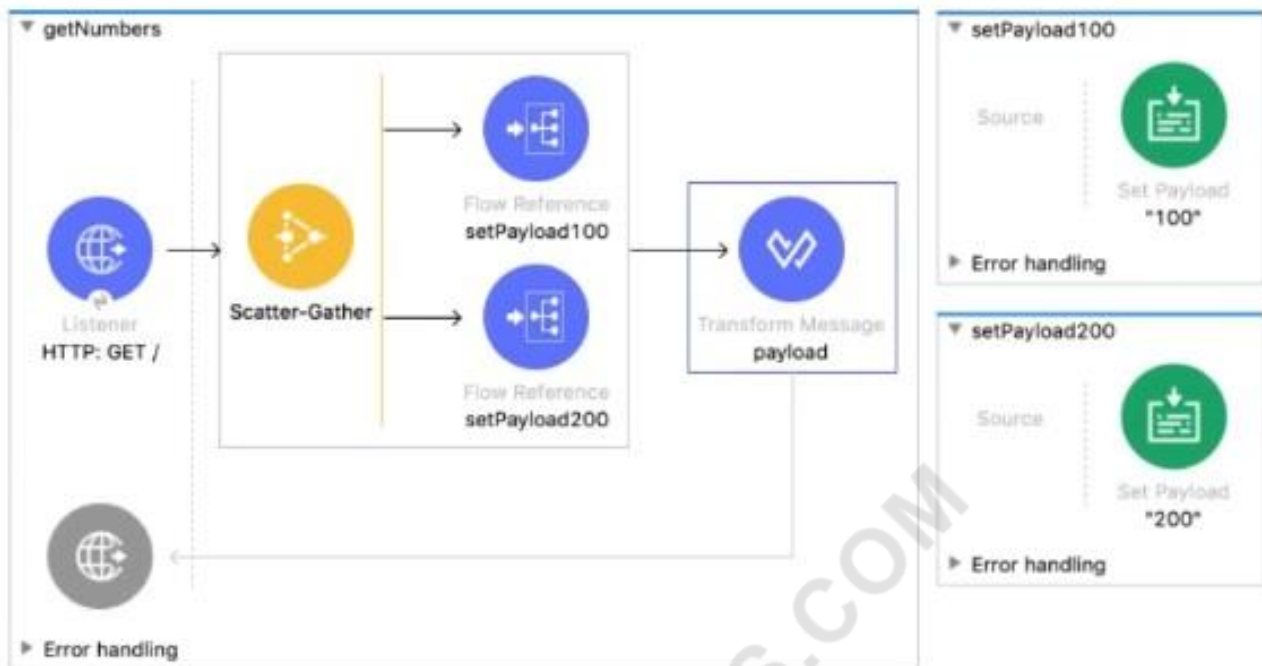
B. 2

C. 3

D. 4

Answer: C

NO.61 Refer to the exhibits.



```
<flow name="getNumbers" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <scatter-gather doc:name="Scatter-Gather" >
    <route >
      <flow-ref doc:name='setPayload100' name='setPayload100' />
    </route>
    <route >
      <flow-ref doc:name="setPayload200" name="setPayload200" />
    </route>
  </scatter-gather>
  <ee:transform doc:name="payload">
    <ee:message >
      <ee:set-payload ><![CDATA[%dw 2.0
output application/json
---
payload]]></ee:set-payload>
    </ee:message>
  </ee:transform>
</flow>
<flow name="setPayload100" ><set-payload value='#["100"]' doc:name='100' /></flow>
<flow name="setPayload200" ><set-payload value='#["200"]' doc:name='200' /></flow>
```

The input array of strings is processed by the batch job that processes, filters, and aggregates the values.

What is the last message logged by the Logger component after the batch job completes processing?

A)

```
[
  {
    "attributes": ...,
    "payload": "100"
  },
  {
    "attributes": ...,
    "payload": "200"
  }
]
```

B)

```
{
  "0": "100",
  "1": "200"
}
```

C)

```
["100", "200"]
```

D)

```
{
  "0": {
    "attributes": ...,
    "payload": "100"
  },
  "1": {
    "attributes": ...,
    "payload": "200"
  }
}
```

- A. Option A
- B. Option B
- C. Option C

D. Option D**Answer: C****NO.62** Refer to the exhibit.

The screenshot shows a web application interface with two main panels. The left panel, titled 'order.xml', displays an XML document. The right panel, titled 'Output Payload', shows the resulting JSON output. Below the XML panel, there are tabs for 'Context' and 'payload', with 'payload' currently selected.

XML Input:

```
<?xml version="1.0" encoding="UTF-8"?>
<order>
  <item orderId="592">
    <shipping>international</shipping>
    <item>T-shirt Navy</item>
    <size>L</size>
    <quantity>1</quantity>
    <price>20</price>
  </item>
  <item orderId="972">
    <shipping>domestic</shipping>
    <item>Cargo Shorts</item>
    <size>XL</size>
    <quantity>2</quantity>
    <price>30</price>
  </item>
</order>
```

JSON Output:

```
[
  {
    "index": 0,
    "orderId": "592",
    "itemName": "T-shirt Navy",
    "lineItemPrice": 20
  },
  {
    "index": 1,
    "orderId": "972",
    "itemName": "Cargo Shorts",
    "lineItemPrice": 60
  }
]
```

What Database expression transforms the input to the output?

A)

```
payload.order.*item map ( (value,index) -> {
  index: index,
  orderId: value.orderId,
  itemName: value.item,
  lineItemPrice: (value.price as :number) * (value.quantity as :number)
})
```

B)

```
payload.order.*item map ( (value,index) -> {
  index: index,
  orderId: value.@orderId,
  itemName: value.item,
  lineItemPrice: (value.price as Number) * (value.quantity as Number)
})
```

C)

```
payload.order.*item map ( (value,index) -> {
  index: index,
  orderId: value.@orderId,
  itemName: value.item,
  lineItemPrice: (value.price as :number) * (value.quantity as :number)
})
```

D)

```

payload.order.*item map( (value,index) -> {
    index: index,
    orderId: value.orderId,
    itemName: value.item,
    lineItemPrice: (value.price as Number) * (value.quantity as Number)
})

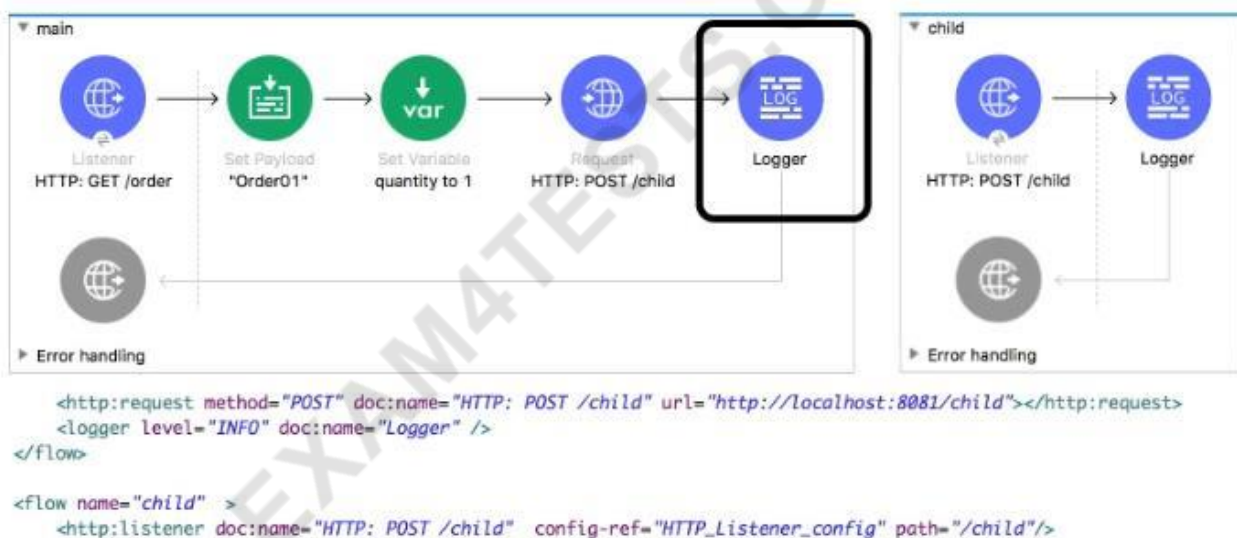
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NO.63 Refer to the exhibit. The main flow contains an HTTP Request in the middle of the flow. The HTTP Listeners and HTTP request use default configurations.

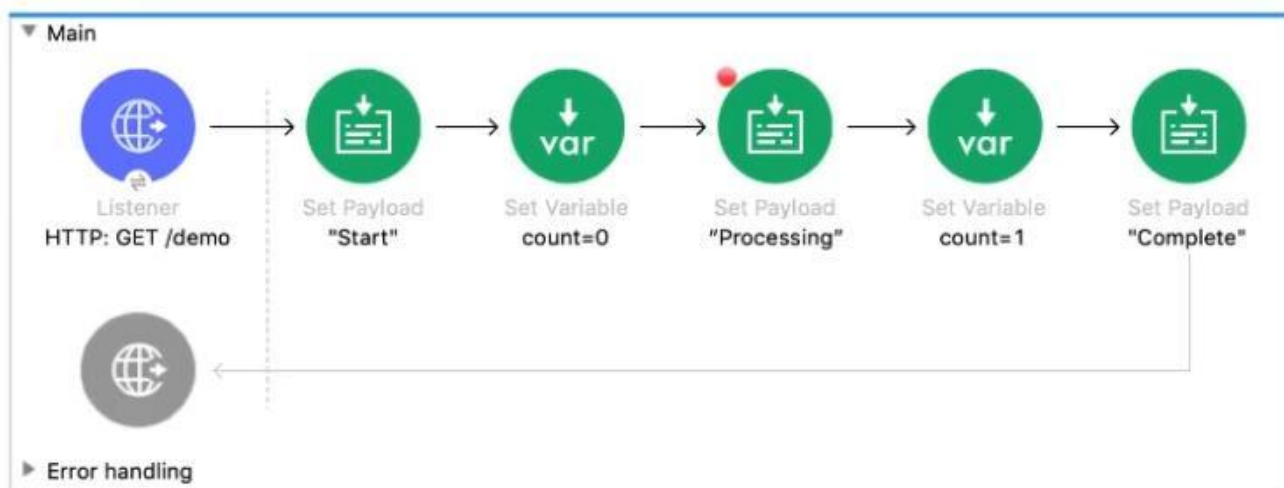
What values are accessible to the Logger at the end of the flow after a web client submit request to `http://local:801/order?color=red?`



- A. payload
- B. payload quantity var
- C. payload color query param
- D. payload quantity var color query param

Answer: B

NO.64 Refer to the exhibit.



The Mule application is debugged in Any point Studio and stops at the breakpoint. What is the value of the payload displayed in the debugger at this breakpoint?

- A. 0
- B. "Processing"
- C. "Start"
- D. Complete"

Answer: C

NO.65 A RAML specification is defined to manage customers with a unique identifier for each customer record.

What URI does MuleSoft recommend to uniquely access the customer identified with the unique ID 1234?

- A. /customers?custid=true&custid=1234
- B. /customers/1234
- C. /customers/custid=1234
- D. /customers?operation=get&custid=1234

Answer: B

NO.66 What payload is returned by a Database SELECT operation that does not match any rows in the database?

- A. false
- B. null
- C. Exception
- D. Empty Array

Answer: D

NO.67 Why would a Mule application use the `${http.port}` property placeholder for its HTTP Listener port when it is deployed to CloudHub?

- A. Allows CloudHub to automatically change the HTTP port to allow external clients to connect to the HTTP Listener
- B. Allows CloudHub to automatically register the application with API Manager
- C. Allows MuleSoft Support to troubleshoot the application by connecting directly to the HTTP

Listener

D. Allows clients to VPN directly to the application at the Mule application's configured HTTP port

Answer: A

NO.68 What is the correct syntax to define and call a function in Database?

A)

```
fun addKV( object: Object, key: String, value: Any ) =
    object ++ { (key):value }
---
addKV ( {hello: "world"}, "hola","mundo" )
```

B)

```
%function addKV( object: Object, key: String, value: Any ) =
    object ++ { (key):value }
---
addKV ( {hello: "world"}, "hola","mundo" )
```

C)

```
%function addKV( object: Object, key: String, value: Any ) =
    object ++ { (key):value }
---
{ hello: "world" } addKV ( "hola","mundo" )
```

D)

```
fun addKV( object: Object, key: String, value: Any ) =
    object ++ { (key):value }
---
{ hello: "world" } addKV ( "hola","mundo" )
```

A. Option A

B. Option B

C. Option C

D. Option D

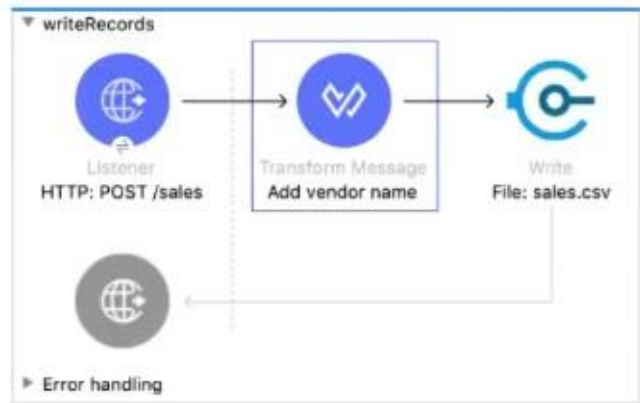
Answer: A

NO.69 Refer to the exhibits.

A web client sends sale data in a POST request to the Mule application. The Transform Message component then enrich the payload by prepending a vendor name to the sale data.

What is written to the sales.csv file when the flow executes?

```
<?xml version="1.0" encoding="UTF-8"?>
<sale>
  <transaction_id>SS-4848-44KK-45YQ</transaction_id>
  <customer_id>anniepoint@acme.com</customer_id>
  <customer>Annie Point</customer>
  <item>Car Seat</item>
  <qty>1</qty>
  <price>59</price>
</sale>
```

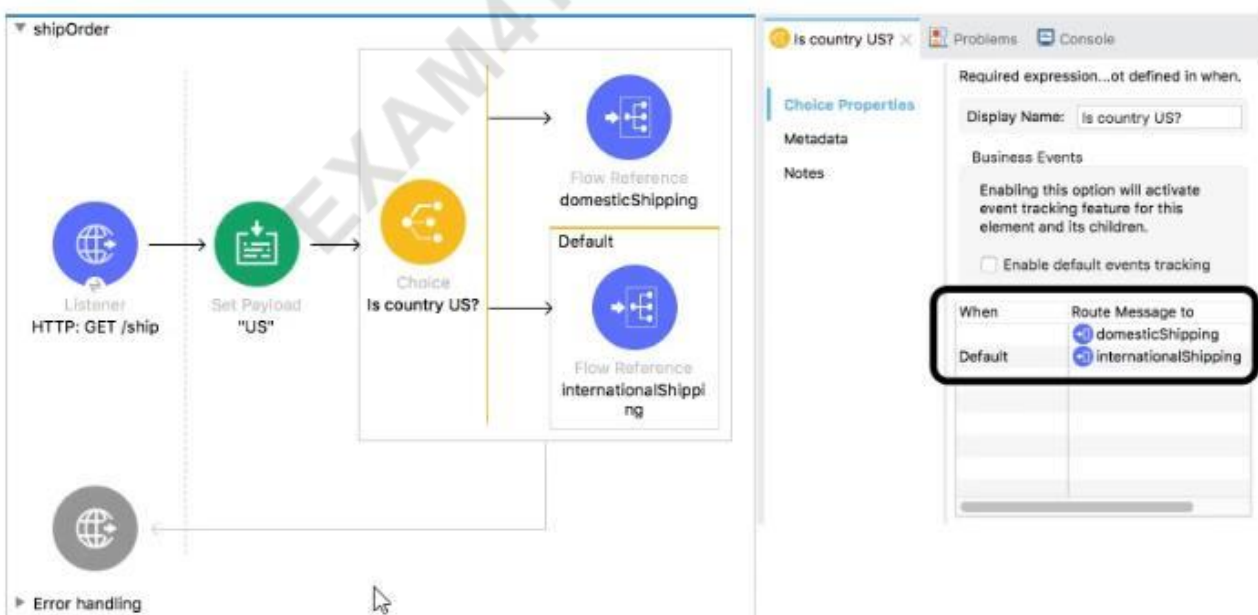


```
<flow name="writeRecords" >
  <http:listener doc:name="HTTP: POST /sales" config-ref="HTTP_Listener_config"
    path="/sales" allowedMethods="POST"/>
  <ee:transform doc:name="Add vendor name" >
    <ee:message >
      <ee:set-payload ><![CDATA[%dw 2.0
        output application/json
        ---
        {vendor: "Acme"} ++ payload.sale]]>
      </ee:set-payload>
    </ee:message>
  </ee:transform>
  <file:write doc:name="File: sales.csv" path="file-store/sales.csv">
  </file:write>
</flow>
```

- A. The enriched payload in JSON format
- B. The enriched payload in XML format
- C. The enriched payload in CSV format
- D. An error message

Answer: A

NO.70 Refer to the exhibit.



What is a valid expression for the Choice router's when expression to route events to the

documenticShipping flow?

- A. 0#[payload = 'US']
- B. #[payload == 'US']
- C. #[if(payload = 'US')]
- D. #[if(payload == "US")]

Answer: B

NO.71 A

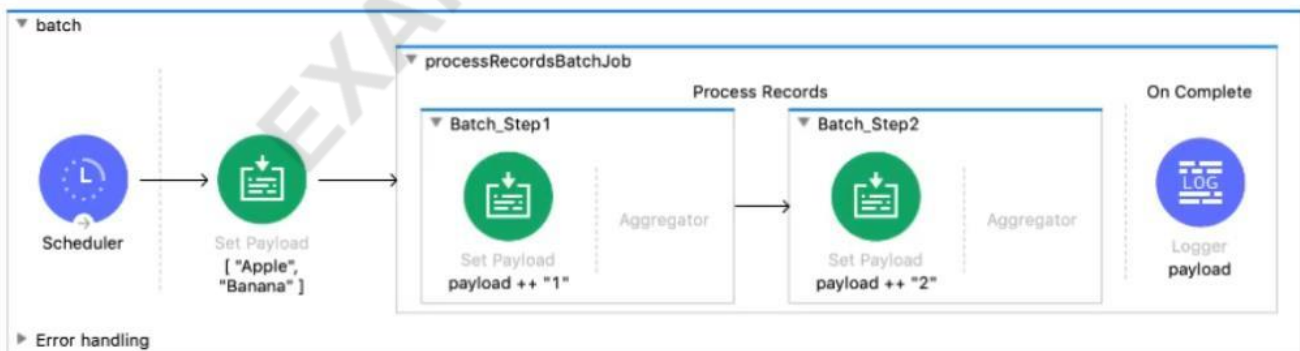
web client submits a request to `http://localhost:8081?accountType=personal`. The query parameter is captured using a Set Variable transformer to a variable named `accountType`.

What is the correct DataWeave expression to log `accountType`?

- A. Account Type: #[flowVars.accountType]
- B. Account Type: #[message.inboundProperties.accountType]
- C. Account Type: #[attributes.accountType]
- D. Account Type: #[vars.accountType]

Answer: D

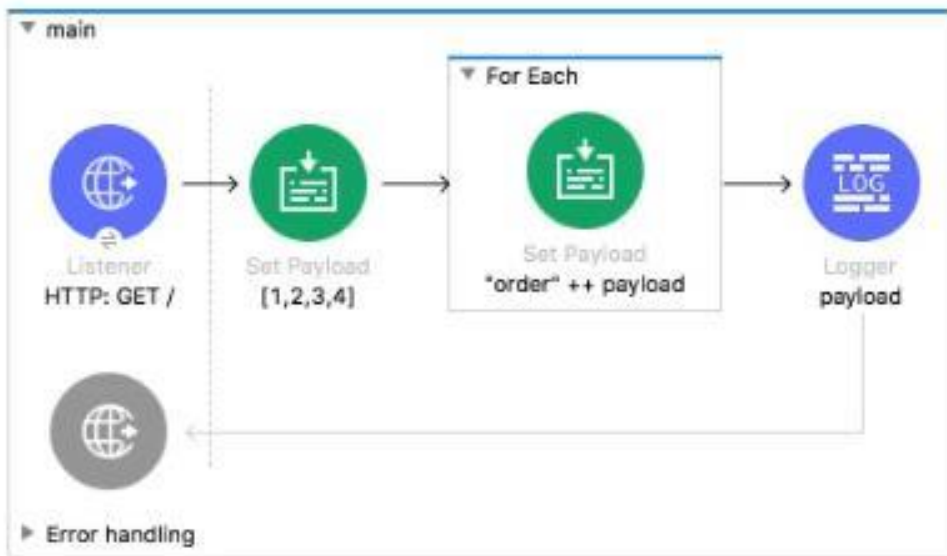
NO.72 Refer to the exhibit. The input array of strings is passed to the batch job, which does NOT do any filtering or aggregating. What payload is logged by the Logger component?



- A. Summary report of processed records
- B. ["Apple", "Banana"]
- C. ["Apptel2", "Bananal2"]
- D. ["Apptel", "Bananal", 2]

Answer: B

NO.73 Refer to the exhibits. What payload is logged at the end of the main flow?



```

<flow name="main" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_Listener_config" path="/" />
  <set-payload value="#[[1,2,3,4]]" doc:name="[1,2,3,4]" />
  <foreach doc:name="For Each" >
    <set-payload value="#["order" ++ payload]" doc:name="'order" ++ payload' />
  </foreach>
  <logger level="INFO" doc:name="payload" message="#[payload]" />
</flow>

```

A. [order1, order2, order3, order4]

B. [1, 2, 3, 4]

C. order4

D. order1order2order3order4

Answer: C

NO.74 Refer to the exhibit.

The screenshot shows the SAP Studio interface. On the left, a workflow diagram is visible with a Listener node (HTTP: GET /data) and a Select accounts node. The properties panel on the right is open for the 'accounts' connector. It shows the following details:

- General:** Display Name: accounts
- Basic Settings:** Connector configuration: Database_Config
- Query:**
 - SQL Query Text:


```
SELECT * FROM accounts
WHERE city = :city AND
state = :state
```
 - Input Parameters: (Empty text area)

The Problems, Console, and Progress tabs are also visible at the top of the properties panel.

What expression correctly specifies input parameters to pass the city and state values to the SQL query?

A)

```
#[  
  {  
    city: "San Francisco",  
    state: "CA"  
  }  
]
```

B)

```
#[  
  [  
    "San Francisco",  
    "CA"  
  ]  
]
```

C)

```
#[  
  inputParams: {  
    city: "San Francisco",  
    state: "CA"  
  }  
]
```

D)

```
#[  
  inputParams: [  
    "San Francisco",  
    "CA"  
  ]  
]
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

NO.75 What is the output type of the DataWeave map operator?

A. String

B. Array

C. Map

D. Object

Answer: B

NO.76 An API implementation has been deployed to CloudHub and now needs to be governed. It will not allocate additional vCore for a new Mule application to act as an API proxy.

What is the next step to preserve the current vCore usage, but still allow the Mule application to be managed by API Manager?

A. Register the same API implementation in Runtime Manager to connect to API Manager

B. Modify the API implementation to use auto-discovery to register with API Manager

C. Upload the Mule application's JAR file to the API instance in API Manager

D. Deploy the same API implementation behind a VPC and configure the VPC to connect to API Manager

Answer: B

NO.77 An HTTP Request operation sends an HTTP request with a non-empty JSON object payload to an external HTTP endpoint. The response from the external HTTP endpoint returns an XML body. The result is stored in a target named the Result.

What is the payload at the event processor after the HTTP Request?

A. The XML response body

B. null

C. The original JSON request body

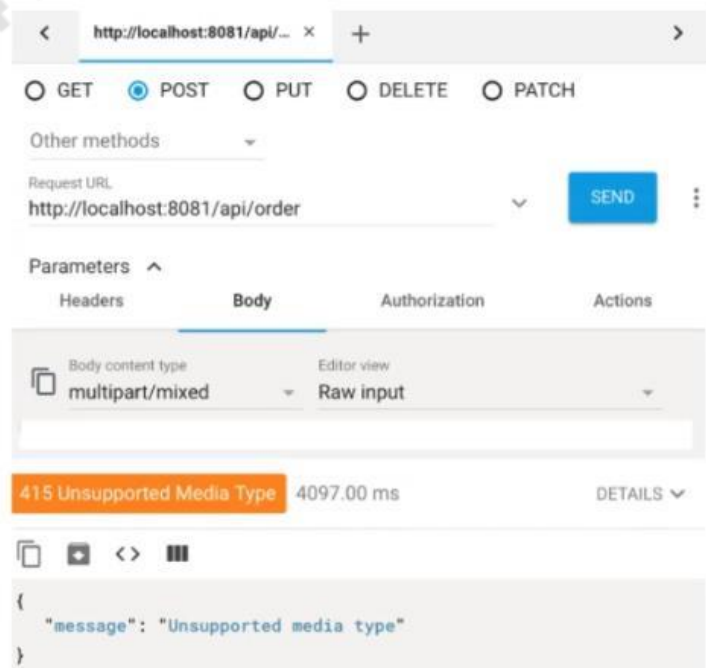
D. A non-empty Java object

Answer: C

NO.78 Refer to the exhibits.

```
#%RAML 1.0
title: ACME Order API
version: 1.0

/order:
  post:
    body:
      application/xml:
        example: |
          <order oid="1001">
            <customerName>Annie Point
          </customerName>
            <itemName>Electric Standing Desk
          </itemName>
            <cost>300.00</cost>
          </order>
```



The web client sends a POST request to the ACME Order API with an XML payload. An error is returned.

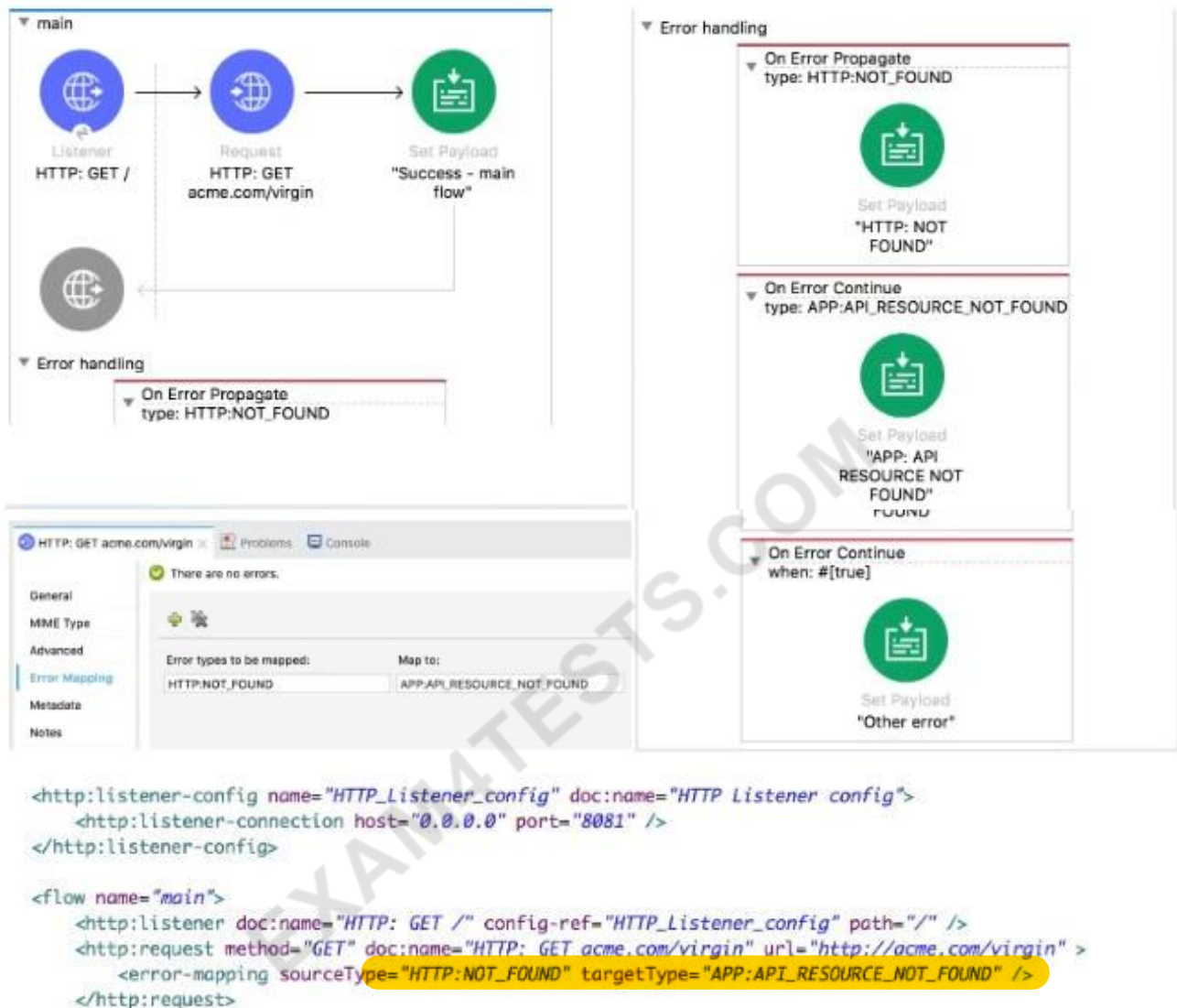
What should be changed in the request so that a success response code is returned to the web

client?

- A. Set a request header with the name Content-Type to a value of application/octet-stream
- B. Set a request header with the name Content-Type to a value of application/xml
- C. Set a response header with the name Content-Type to a value of application/xml
- D. Set a response header with the name Content-Type to a value of application/octet-stream

Answer: B

NO.79 Refer to the exhibit.



The main flow is configured with their error handlers. A web client submit a request to the HTTP Listener and the HTTP Request throws an HTTP:NOT_FOUND error.

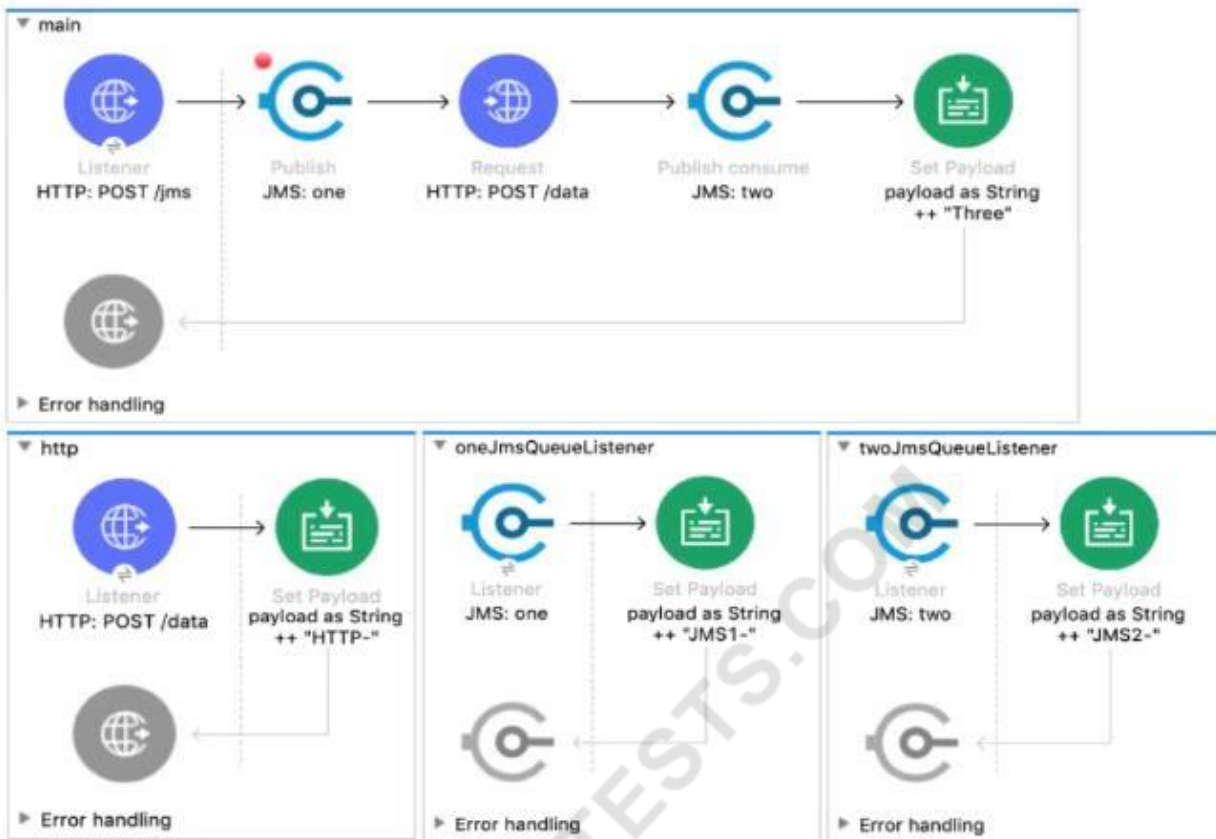
What response message is returned?"

What response message is returned?

- A. APP: API RESOURCE NOT FOUND
- B. HTTP: NOT FOUND
- C. other error
- D. success - main flow

Answer: A

NO.80 Refer to the exhibits.



```
<flow name="main">
  <http:listener doc:name="HTTP: POST /jms" config-ref="HTTP_Listener_config" path="/jms" />
  <jms:publish doc:name="JMS: one" config-ref="JMS_Config" destination="one" >
    <jms:message outboundContentType="text/plain" />
  </jms:publish>
  <http:request method="POST" doc:name="HTTP: POST /data" url="http://localhost:8081/data"/>
  <jms:publish-consume doc:name="JMS: two" config-ref="JMS_Config" destination="two">
    <jms:message outboundContentType="text/plain" />
  </jms:publish-consume>
  <set-payload value='#[payload ++ "Three"]' doc:name='payload as String ++ "Three"' />
</flow>
```

A web client sends a POST request to the HTTP Listener with the payload "Hello-". What response is returned to the web client?

What response is returned to the web client?

- A. Hello- HTTP-] MS2-Three
- B. HTTP-JMS2-Three
- C. Hello-JMS1-HTTP-JMS2 -Three
- D. Hello-HTTP-Three

Answer: A

NO.81 Refer to the exhibits.



Message Flow Global Elements Configuration XML

Set to XML X Problems Console

There are no errors.

General

Metadata

Notes

Display Name: Set to XML

Settings

<ns2:listAllFlightsResponse xmlns:ns2="http://soap.training.mulesoft.com/">
<return>

Encoding: [Dropdown]

MIME Type: [Dropdown]

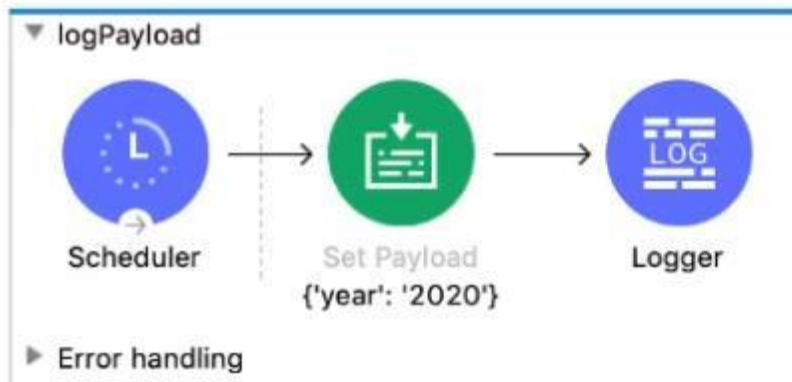
```
<flow name="getFlights" >
  <http:listener doc:name="HTTP: GET /Flights" config-ref="HTTP_Listener_config" path="/flights"/>
  <set-payload value='&lt;ns2:listAllFlightsResponse xmlns:ns2="http://soap.training.mulesoft.com/"&gt;
    &lt;return&gt;
    &lt;airlineName&gt;Delta&lt;/airlineName&gt;
    &lt;code&gt;A1B2C3&lt;/code&gt;
    &lt;departureDate&gt;2015/03/20&lt;/departureDate&gt;
    &lt;/return&gt;
    &lt;/ns2:listAllFlightsResponse&gt;' doc:name="Set to XML" />
  <ee:transform doc:name="typeOf(payload)" doc:id="43898508-15e2-4cb7-8d0b-bd9c2929209e" >
    <ee:message><ee:set-payload ><![CDATA[%dw 2.0
      output application/json
      ---
      typeOf(payload)]]></ee:set-payload>
    </ee:message>
  </ee:transform>
</flow>
```

A web client submits a request to `http://localhost:8081 /flights`. What is the result at the end of the flow?

- A. "string"
- B. "Java"
- C. "object"
- D. "XML"**

Answer: C

NO.82 Refer to the exhibits.



```

<flow name="logPayload" >
  <scheduler doc:name="Scheduler" >
    <scheduling-strategy >
      <fixed-frequency />
    </scheduling-strategy>
  </scheduler>
  <set-payload value="#[{'year': '2020'}]" doc:name="{ 'year': '2020' }" />
  <logger level="INFO" doc:name="Logger" message="???? />
</flow>
  
```

The Set Payload transformer's value is set to {'year': '2020'}.

What message value should be added to the Logger component to output the message 'The year is 2020', without hardcoding 2020?

- A. '#[The year is \$(pay load .year)]'
- B. The year is #[payload.year]'
- C. '#[The year is " + payload.year]'
- D. '#["The year is ++payload-year"]'

Answer: D

NO.83 Refer to the exhibit.

Basic Settings

Connector configuration: HTTP_Listener_config

General

Path: /accounts/

What is the correct syntax to add an employee ID as a URI parameter in an HTTP Listener path?

- A. (employeeID)
- B. \${employeeID}
- C. {employeeID}
- D. # [employeeID]

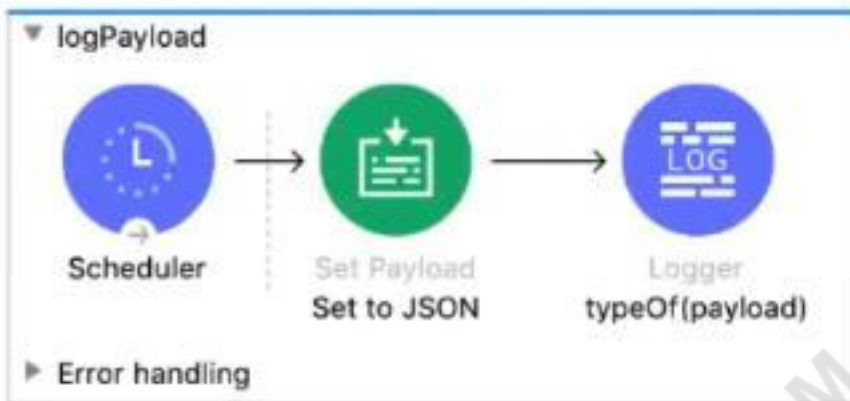
Answer: C

NO.84 An SLA based policy has been enabled in API Manager. What is the next step to configure the API proxy to enforce the new SLA policy?

- A. Add new property placeholders and redeploy the API proxy
- B. Add new environment variables and restart the API proxy
- C. Restart the API proxy to clear the API policy cache
- D. Add required headers to the RAML specification and redeploy the new API proxy

Answer: D

NO.85 Refer to the exhibits.



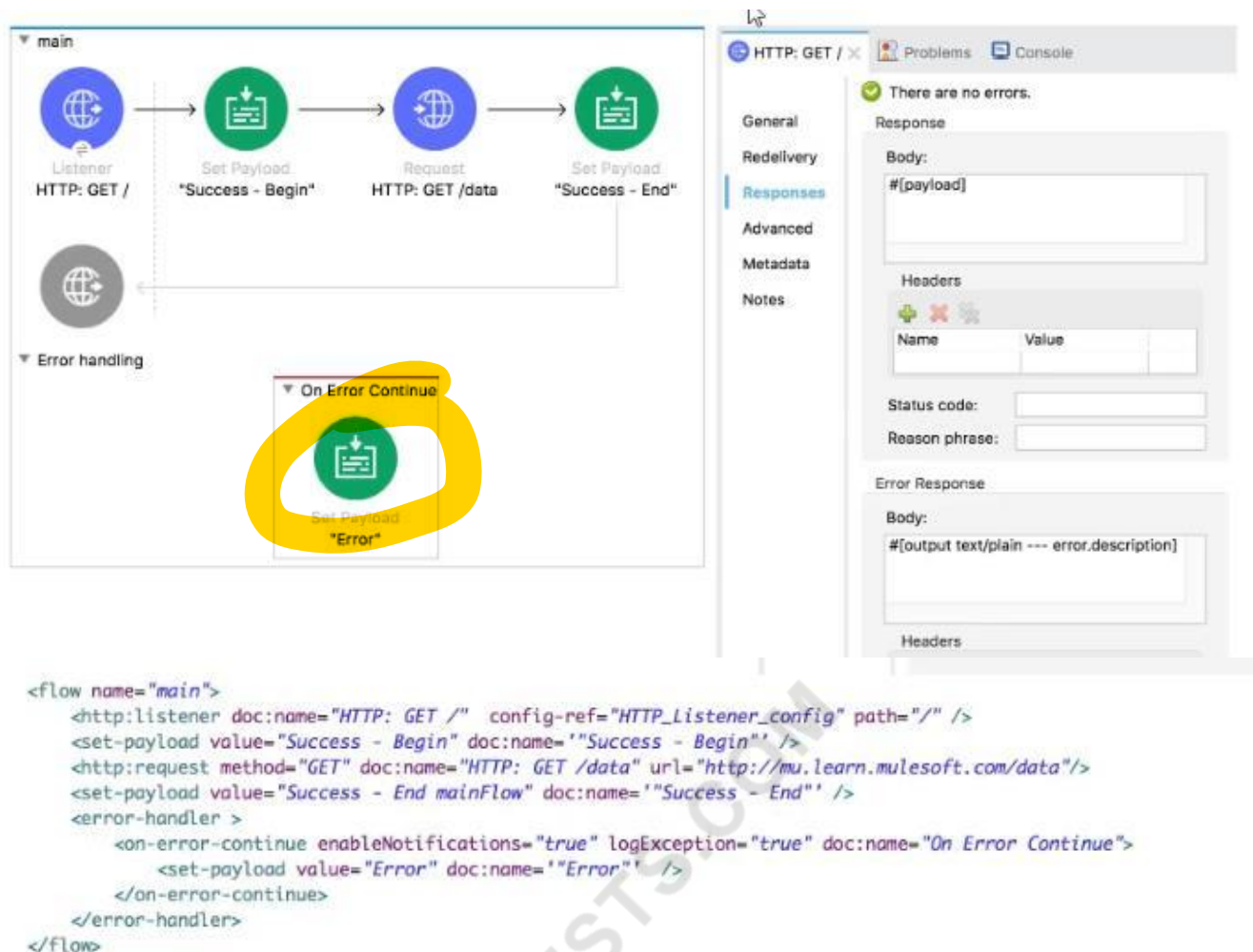
```
<flow name="logPayload" >
  <scheduler doc:name="Scheduler" >
    <scheduling-strategy >
      <fixed-frequency />
    </scheduling-strategy>
  </scheduler>
  <set-payload doc:name="Set to JSON" value='#[{
    "accounts": {
      "account": {
        "accountName": "ABC Widgets",
        "type": "New Customer",
        "stage": "Qualification"
      }
    }
  }]' />
  <logger level="INFO" doc:name="typeOf(payload)" message='#[typeOf(payload)]' />
</flow>
```

A JSON payload is set in the Set Payload transformer.
What is logged by the Logger?

- A. "String"
- B. "Object"
- C. "Array"
- D. "JSON"

Answer: D

NO.86 Refer to the exhibits.



A web client submits a request to the HTTP Listener and the HTTP Request throws an error. What payload and status code are returned to the web client?

Refer to the exhibits. A web client submits a request to the HTTP Listener and the HTTP Request throws an error.

What payload and status code are returned to the web client?

- A.** Response body: "Error" Default response status code: 200
- B.** Response body: "Success - Begin" Default response status code: 200
- C.** Error response body: error, description Default error response status code: 500
- D.** Response body: "Success - End" Default response status code: 200

Answer: A

NO.87 Refer to the exhibits.

config.yaml

```
db:
  host: "mudb.learn.mulesoft.com"
  username: "mule"
  password: "mule"
```

What is valid text to set the field in the Database connector configuration to the username value specified in the config.yaml file?

- A. \${db.username}>
- B. #[db.username]
- C. #[db:username]
- D. \${db:username}>

Answer: A

NO.88 Refer to the exhibit.

```
##RAML 1.0
title: ACME Insurance API

/users:
  post:
    headers:
      username: string
      password: string
    body:
      application/json:
```

What is the correct way to create a user?

A)

B)

Method: POST Request URL: http://localhost:8081/api/users SEND

Parameters

Headers Authorization Body Variables Actions

 <> Toggle source mode + Insert headers set

Header name	Header value	
Content-Type	application/json	X  
username	max	X
password	mule	X

ADD HEADER

C)



Method: POST Request URL: http://localhost:8081/api/users?username=max&password=mule SEND

Parameters


Headers Authorization Body Variables Actions

Headers Authorization Body Variables Actions

 <> Toggle source mode + Insert headers set

Header name	Header value	
Content-Type	application/json	X  

ADD HEADER

 Headers size: 30 bytes

D)

Method: POST Request URL: http://localhost:8081/api/users?username=headers&password=headers

Parameters

Headers

Header name: Content-Type Header value: application/json

Header name: username Header value: username:mx

Header name: password Header value: password:mule

ADD HEADER

A. Option A

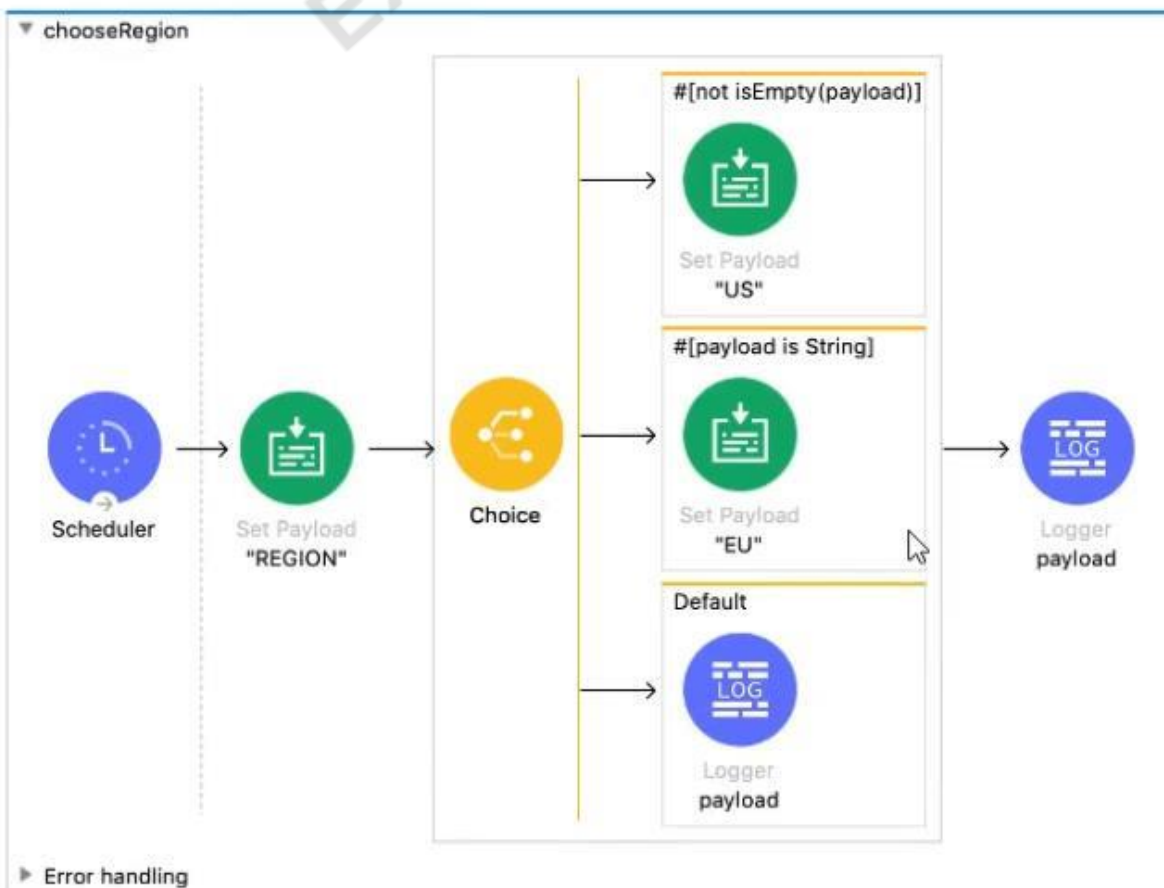
B. Option B

C. Option C

D. Option D

Answer: B

NO.89 Refer to the exhibits.



```
<flow name="chooseRegion" >
  <scheduler doc:name="Scheduler" >
    <scheduling-strategy >
      <fixed-frequency frequency="5000"/>
    </scheduling-strategy>
  </scheduler>
  <set-payload value='#["REGION"]' doc:name="REGION" />
  <choice doc:name="Choice" >
    <when expression='#[not isEmpty(payload)]'>
      <set-payload value='#["US"]' doc:name="US" />
    </when>
    <when expression='#[payload is String]'>
      <set-payload value='#["EU"]' doc:name="EU" />
    </when>
    <otherwise>
      <logger level="INFO" doc:name="payload" message="#[payload]"/>
    </otherwise>
  </choice>
  <logger level="INFO" doc:name="payload" message="#[payload]"/>
</flow>
```

A Mule application contains a Choice router. What is logged when the flow completes?

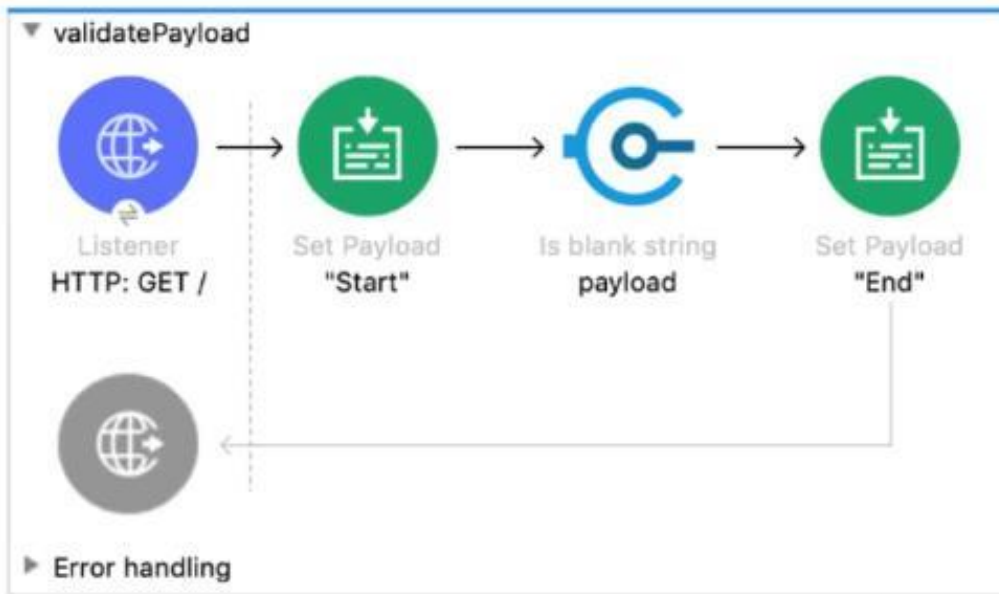
- A. EU
- B. US**
- C. "REGION"
- D. ["US", "EU"]

Answer: B

NO.90 Refer to the exhibits.

A web client sends a GET request to the HTTP Listener.

What response message is returned to the web client?

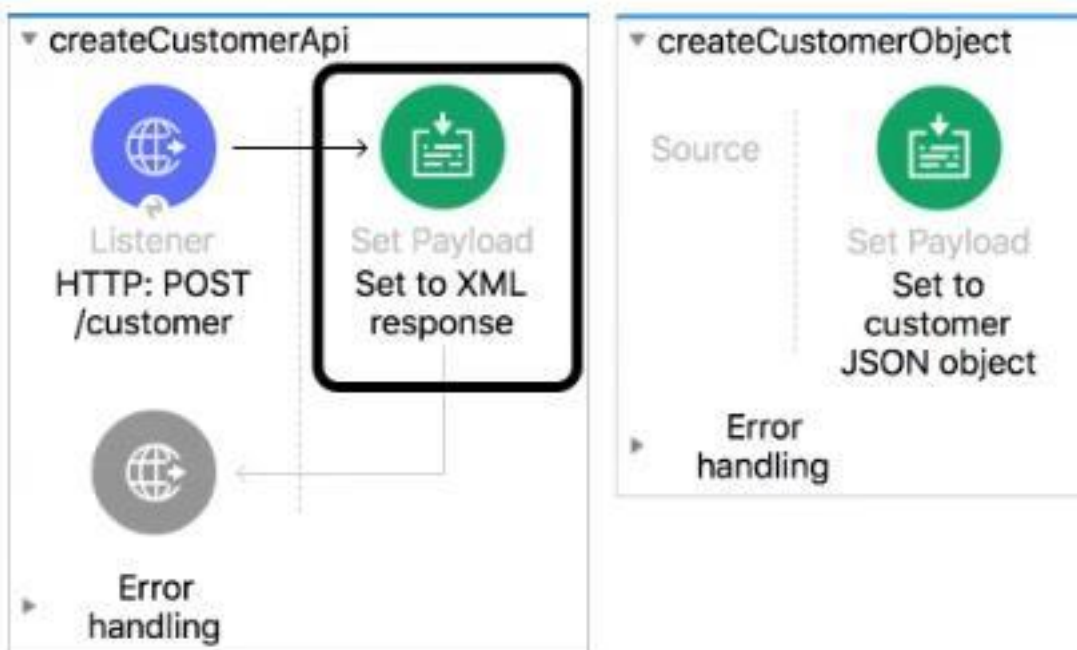


```
<flow name="validatePayload" >
  <http:listener doc:name="HTTP: GET /" config-ref="HTTP_listener_config" path="/" />
  <set-payload value="Start" doc:name="Start" />
  <validation:is-blank-string doc:name="payload" value="#[payload]" />
  <set-payload value="End" doc:name="End" />
</flow>
```

- A. ""
- B. "End"
- C. "Start"
- D. "String is not blank"

Answer: D

NO.91 Refer to the exhibit.



What is the correct DataWeave expression for the Set Payload transformer to call the createCustomerObject flow with values for the first and last names of a new customer?

- A. lookupC createCustomerObject("Alice", "Green-))
- B. createCustomerObject({ first: "Alice", last: "Green" } >)
- C. lookupf "createCustomerObject", { first: "Alice", last: "Green" } >)
- D. createCustomerObject("Alice", "Green")

Answer: C

NO.92 A company has an API to manage purchase orders, with each record identified by a unique purchase order ID.

The API was built with RAML according to MuleSoft best practices.

What URI should a web client use to request order P05555?

- A. /orders/{P05555}
- B. /orders/order=P05555
- C. /orders?order=P05555
- D. /orders/P05555

Answer: D

NO.93 Refer to the exhibit.

The screenshot shows the MuleSoft Studio interface. On the left, the 'list_json_1.json' file contains a JSON array of two order objects. The first object has an orderID of 592, shipping 'international', item 'T-shirt Navy', size 'L', quantity 1, and price 20. The second object has an orderID of 972, shipping 'domestic', item 'Cargo Shorts', size 'XL', quantity 2, and price 30. In the center, the 'Output Payload' tab shows a DataWeave expression: `1 %dw 2.0`, `2 output application/xml`, and `3 ---`. On the right, the resulting XML output is displayed: `<?xml version='1.0' encoding='UTF-8'?>`, `<order>`, `<item>`, `<itemName>T-shirt Navy</itemName>`, `<total>20</total>`, `</item>`, `<item>`, `<itemName>Cargo Shorts</itemName>`, `<total>60</total>`, `</item>`, and `</order>`.

What Database expression transforms the input to the output?

A)

```
{(  
  payload map ( (value, index) ->  
    order: {  
      item: {  
        itemName: value.item,  
        total: value.price * value.quantity  
      }  
    }  
  )  
})
```

B)

☐ order:

```
  payload map ( (value,index) ->  
    item: {  
      itemName: value.item,  
      total: value.price * value.quantity  
    }  
  )
```

C)

```
payload map ( (value, index) ->  
  order: {  
    item: {  
      itemName: value.item,  
      total: value.price * value.quantity  
    }  
  }  
)
```

D)

☐ order:

```
{(  
  payload map ( (value,index) ->  
    item: {  
      itemName: value.item,  
      total: value.price * value.quantity  
    }  
  )  
})
```

A. Option A

- B. Option B
- C. Option C
- D. Option D

Answer: C

NO.94 A Mule application contains an ActiveMQ JMS dependency. The Mule application was developed in Anypoint Studio and runs successfully in Anypoint Studio.

The Mule application must now be exported from Anypoint Studio and shared with another developer.

What export options create the smallest JAR file that can be imported into the other developer's Anypoint Studio and run successfully?

- A. Attach project sources
Include project modules and dependencies
- B. Attach project sources
Include project modules and dependencies
- C. Attach project sources
Include project modules and dependencies
- D. Attach project sources
Include project modules and dependencies

Answer: B

NO.95 What DataWeave expression transforms the example XML input to the CSV output?

The screenshot shows the Anypoint Studio interface. On the left, the XML input is displayed in a code editor. It is an XML document with a root element 'sale' containing two 'item' elements. Each 'item' element has attributes 'itemId' and 'saleId', and child elements 'shipping', 'desc', 'size', 'quantity', and 'price'. The first item has itemId '592', saleId '1000', shipping 'international', desc 'T-shirt Navy', size 'L', quantity '1', and price '20'. The second item has itemId '972', saleId '1000', shipping 'domestic', desc 'Cargo Shorts', size 'XL', quantity '2', and price '30'. On the right, the 'Output' tab is selected, showing the resulting CSV output. The CSV has five columns: 'index', 'sale', 'itemName', 'itemPrice', and 'item'. The first row is '0,1000,T-shirt Navy,20,592' and the second row is '1,1000,Cargo Shorts,60,972'. The 'Preview' button is visible in the top right corner of the output pane.

A)

```
payload.sale.*item map ( (value,index) -> {
    index: index,
    sale: value.@saleId,
    itemName: value.desc,
    itemPrice: (value.price) * (value.quantity),
    item: value.@itemId
} )
```

B)


```
payload.sale.*item map ( (value,index) -> {
    index: index,
    sale: value.saleId,
    itemName: value.desc,
    itemPrice: (value.price) * (value.quantity),
    item: value.itemId
} )
```

C)

```
payload.sale.item map ( (value,index) -> {
    index: index,
    sale: value.@saleId,
    itemName: value.desc,
    itemPrice: (value.price) * (value.quantity),
    item: value.@itemId
} )
```

D)

```
payload.sale.item map ( (value,index) -> {
    index: index,
    sale: value.saleId,
    itemName: value.desc,
    itemPrice: (value.price) * (value.quantity),
    item: value.itemId
} )
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A**NO.96 A**

Mule application contains two HTTP Listeners, each configured for different API endpoints:

<http://acme.com/apis/orders> and <http://acme.com/apis/customers>.

What base path value should be set in an HTTP Listener config element so that it can be used to configure both HTTP Listeners?

A. /apis/?

B. /apis/

C. /apis/orders|customers

D. /apis/*

Answer: D

NO.97 By default, what happens to a file after it is read using an FTP connector Read operation?

A. The file is deleted from the folder

B. The file is moved to a different folder

C. The file stays in the same folder unchanged

D. The file is renamed in the same folder

Answer: C

NO.98 To avoid hard-coding values, a flow uses some property placeholders and the corresponding values are stored in a configuration file.

Where does the configuration file's location need to be specified in the Mule application?

A. The pom.xml file

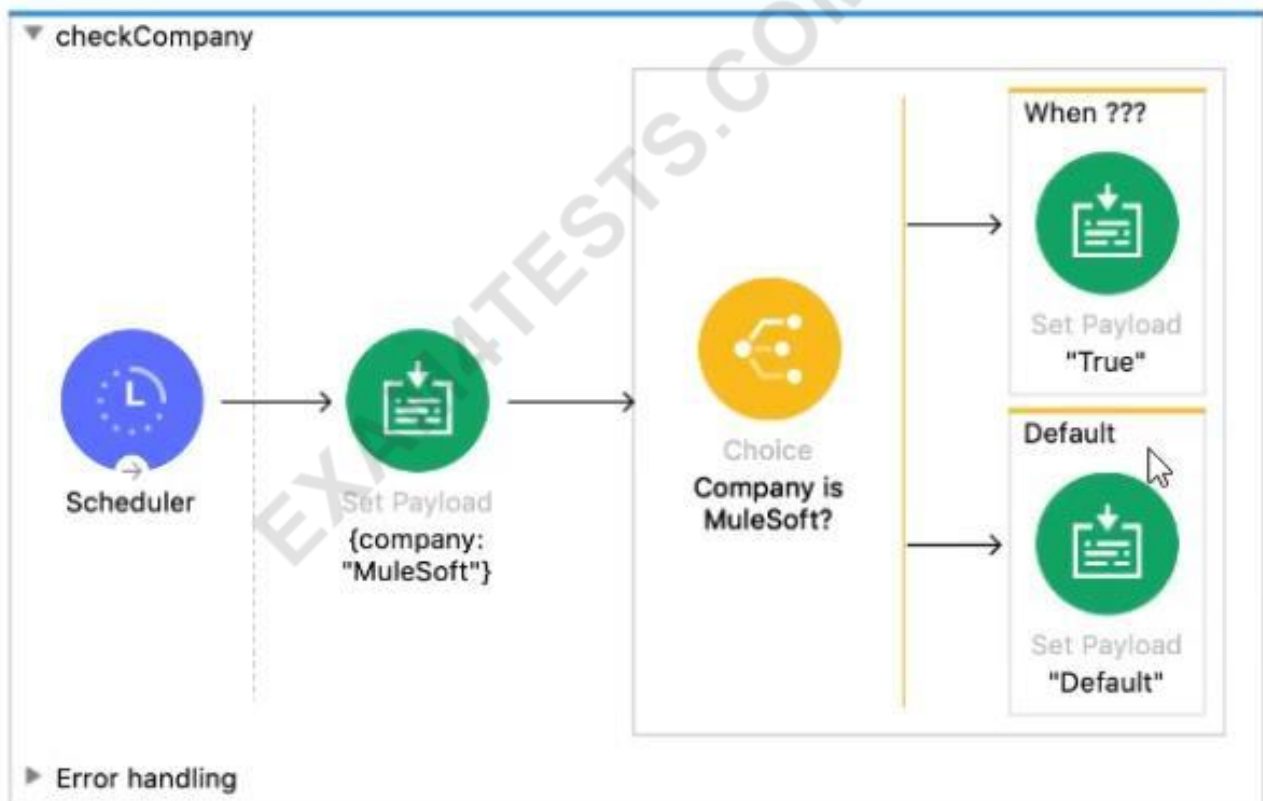
B. A global element

C. The mule-artifact.json file

D. a flow attribute

Answer: B

NO.99 Refer to the exhibits.



```
<flow name="checkCompany">
  <scheduler doc:name="Scheduler">
    <scheduling-strategy>
      <fixed-frequency frequency="5000" />
    </scheduling-strategy>
  </scheduler>
  <set-payload value="#[{company: 'MuleSoft'}]" doc:name='{company: "MuleSoft"}' />
  <choice doc:name="Company is MuleSoft?">
    <when expression="When ???">
      <set-payload value="#['True']" doc:name='"True"' />
    </when>
    <otherwise>
      <set-payload value="#['Default']" doc:name='"Default"' />
    </otherwise>
  </choice>
</flow>
```

The <when> expression for the Choice router needs to be written.

What is a valid <when> expression to route Mule events to the non-default flow?

- A. #['MuleSoft' == payload.company]
- B. #[company = "MuleSoft"]
- C. #[if(company = "MuleSoft")]
- D. #[if('MuleSoft' == payload.company)]

Answer: D

NO.100 A company has an API to manage departments, with each department identified by a unique deptId. The API was built with RAML according to MuleSoft best practices.

What is valid RAML to specify a method to update the details for a specific department?

A)

```
/departments:  
  /deptId:  
    patch:
```

B)

```
/departments:  
  patch:  
    /deptId:
```

C)

```
/departments:  
  patch:  
    queryParameters:  
      deptId:
```

D)

```
/departments:  
  /{deptId}:  
    patch:
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D