Apex Integration Services

Apex REST Callouts

AnimalLocator :

```
public class AnimalLocator {

public class cls_animal {

public Integer id;

public String name;

public String eats;

public String says;

}

public class JSONOutput{

public cls_animal animal;


     //public JSONOutput parse(String json){

//return (JSONOutput) System.JSON.deserialize(json,
JSONOutput.class);

//}

}


   public static String getAnimalNameById (Integer id) {

      Http http = new Http();

      HttpRequest request = new HttpRequest();
```

```
        request.setEndpoint('https://th-apex-http-
callout.herokuapp.com/animals/' + id);

        //request.setHeader('id', String.valueof(id)); -- cannot be used
in this challenge :)

        request.setMethod('GET');

        HttpResponse response = http.send(request);

        system.debug('response: ' + response.getBody());

        //Map<String,Object> map_results = (Map<String,Object>)
JSON.deserializeUntyped(response.getBody());

        jsonOutput results = (jsonOutput)
JSON.deserialize(response.getBody(), jsonOutput.class);

        //Object results = (Object) map_results.get('animal');
system.debug('results= ' + results.animal.name);

        return(results.animal.name);

    }


}
```

AnimalLocatorTest:

```
@IsTest
public class AnimalLocatorTest {
    @isTest
    public static void testAnimalLocator() {
```

```
        Test.setMock(HttpCalloutMock.class, new
AnimalLocatorMock());

        //Httpresponse response =
AnimalLocator.getAnimalNameById(1);

        String s =  AnimalLocator.getAnimalNameById(1);

        system.debug('string returned: ' + s);

    }


}
```

AnimalLocatorMock:

```
@IsTest

global class AnimalLocatorMock implements HttpCalloutMock {


    global HTTPresponse respond(HTTPrequest request) {

        Httpresponse response = new Httpresponse();

        response.setStatusCode(200);

        //-- directly output the JSON, instead of creating a logic

        //response.setHeader('key, value)

        //Integer id = Integer.valueof(request.getHeader('id'));

        //Integer id = 1;

        //List<String> lst_body = new List<String> {'majestic badger', 'fluffy
bunny'};

        //system.debug('animal return value: ' + lst_body[id]);
```

```
response.setBody('{"animal":{"id":1,"name":"chicken","eats":"chicken
food","says":"cluck cluck"}}');

        return response;

    }


}
```