

# Apex REST Callouts

## Code for 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);
}
}

```

## Code for AnimalLocatorMock

```

@Test
global class AnimalLocatorMock implements HttpCalloutMock {

    global HTTPResponse respond(HTTPPrerequest request) {
        HttpResponse response = new HttpResponse();
        response.getStatusCode(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;
    }

}
}

```

## Code for 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);
    }
}
```