

# Extracting variables in a loop

This guide will help you to extract variables of a test case having a loop.

Suppose we have a test case to validate the Add contact API and we are executing this test case in a loop.

URL	{{contactsAppBaseURL}}/contacts		
Description	here {{contactsAppBaseURL}} is a global variable and value is the base URL of the test server.		
Method	POST	Condition	Empty
External Id	Empty	Loop source	2
Versions	2.4.5	Authorization	Empty
Tags	contacts	Wait for seconds	Empty

And we want to extract the contact ids and names of all the newly created contacts and we want to store them in array say **contactIds** and **names** respectively.

## Steps:

1. First create a utility method say **pushValueToArray** like this.

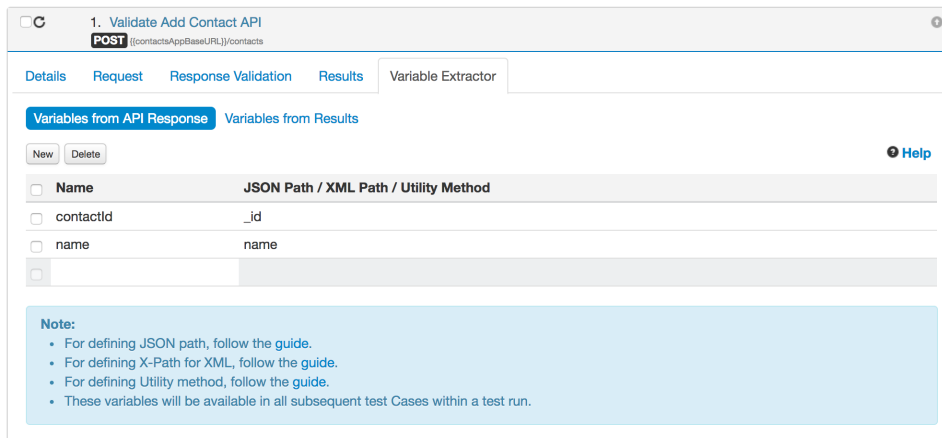
```
1- (function(){
2-
3-   var aFunction = function(res, opts, arr, val){
4-     if(!arr) arr = [];
5-     arr.push(val);
6-     return arr;
7-   };
8-
9-   return aFunction;
10- })();
11
```

You may use the below code for the utility method `pushValueToArray`

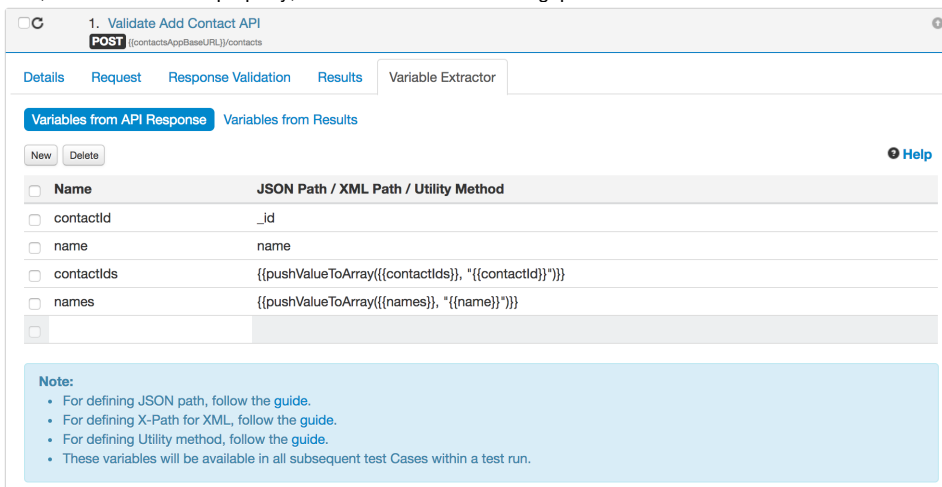
```
pushValueToArray

(function(){
  var aFunction = function(res, opts, arr, val){
    if(!arr) arr = [];
    arr.push(val);
    return arr;
  };
  return aFunction;
})();
```

2. Then in variable extractor tab of the test case, extract the desired properties of the response, as you do normally for the current iteration. In this sample demonstration, we want to extract the `_id` property of the API response.



3. Now, for each extracted property, create another variables e.g. plural version of variables and invoke the utility method like this.



Note:

- In `pushValueToArray`, first argument (`{{contactIds}}` or `{{names}}`) must not be enclosed with double quotes.