**Basics of Javascript - Assignment**

Q1) Write a function isPalindrome(str), which takes a string of multiple words and returns a boolean value. Make use of string functions to write this function.

e.g - isPalindrome(“i ama i”) = true, isPalindrome(“hello mike”) = false

Q2) Write a function sum which can take any number of parameters and should return the total of all parameters.

e.g - sum(10,2,5) = 17, sum(1,3,2,7) = 13

Q3) Create a button that is destroyed by clicking on it but two new buttons are created in it's place.

Q4) Write a function named NewMethod which will be used as an alternative for javascript new keyword. NewMethod will accept two arguments first is name of the constructor function and second will be parameters to be passed *(Parameters can be comma separated or an array)*.

The Object created using NewMethod should be exactly same as that of if created with new keyword.

new keyword should not be used inside NewMethod.

e.g:

var person = new Person("Amol");

var person = NewMethod(Person, ["Amol"]);

Q5) Write a code snippet for the below scenario.

The idea is to capture store and present the relational information of family members.

On landing on the index.html page user should be asked about how many family members data he/she wants to enter? Based on the input a form be presented to capture the data. It should be stored such that after the form is completed the same can be used to show total information.

Please note

# The data includes name, age, relation and activities.

# Any activities will be delegated in hierarchical manner. eg. If one’s grandfather has an activity of morning walk will be inherited to father and to the person. This logic should be used to present the final information in a Tabular format.

# Everything should be on single html page. Not multiple html pages.

# The same form should be used multiple times to capture the data depending on the input of user (how many family members)

Please refer to the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | John | Williams | Denis |
| Relation | Self | Father | Grandfather |
| Age | 24 | 55 | 80 |
| Activities | Cricket, Morning Walk, Cooking | Cooking, Morning Walk | Morning Walk |