Javascript quiz (Basic Level - 3)

This is a document of Javascript basic questions. Answer these to improve your knowledge. The level of questions will increase as you grow.

How to Submit answers? (Choose any one method)
Method 1 : Make separate google docs, write answers and send the link to the group.
Method 2 : It's better if you maintain a github repository for these questions and write answers in the form of markdown files (.md) with code and then share the link to the repo. Learn how to write .md here
https://medium.com/@saumya.ranjan/how-to-write-a-readme-md-file-markdown-file-20cb7cbcd6f

(Try to answer in your own words, though you are free to use google)

Theory -
Why do we need theory questions - A program should have a clear understanding of basic concepts and how to answer any question clearly and in brief.

Write brief and accurate answers, don't over explain anything as this is not RTU, You don't have to fill pages.

1. Explain as much as you know about objects in javascript? (A long answer expected).
2. Read the code :
    ```
    // This is an object based vector template
    var vector = {
        _x: 0,
        _y: 0,

        create: function(x,y){
            var obj = Object.create(this);
            obj.setX(x);
            obj.setY(y);
            return obj;
        },
    }
    ```
    Can you make a "class" based alternative to it? Using Javascript OOP features.
3. Do you think javascript is the language of the future?

Programs -
(Use as many built in methods as you can like sort, filter, map etc.)

Copy and paste the exact javascript program that you wrote, don't put HTML or CSS, keep javascript only.

Keep your programs clean and easy to understand.

1. Write code implementations of arr methods -
    a. forEach
    b. map
    c. filter
    d. reduce
    e. includes
    f. some
    g. every
2. Simple array implementation
3. To do list task

```
/* you have to arrays
1. ToDo
2. Completed

! implement three functions
1. add(title)
2. remove(id)
3. update(id, title)
4. markAsCompleted(id)

* The ToDo array is a list of tasks (object)
each task has an id (number) and a title (string)
* eg :
{id: 1, task: 'Learn JavaScript'}

Implementation
1. add function will add a task to the ToDO array with an unique
id
 - it will accept a title as a string and return the id of the
new task
 - it will return -1 if the title is empty
2. remove function will remove a task from the TODO array
    - it will accept an id as a number and return true if the
task was removed
    - it will return false if the id is not found
3. update function will update the title of a task
    - it will accept an id as a number and a title as a string
    - it will return true if the task was updated
    - it will return false if the id is not found
4. markAsCompleted will remove a task from the TODO array and add
it to the Completed array
```

```
        - it will accept an id as a number and return true if the
task has been moved
        - it will return false if the id is not found


Best of luck!
*/
```