redmine.md 4/24/2023

### Bai Tap Ve Ham

#### 1. Write a JavaScript program to list the properties of a JavaScript object

```
Sample object:

var student = {
    name : "David Rayy",
    sclass : "VI",
    rollno : 12
    };

Sample Output: name,sclass,rollno
```

#### 2. Write a JavaScript program to get the length of a JavaScript object

```
Sample object :

var student = {
    name : "David Rayy",
    sclass : "VI",
    rollno : 12
};
```

# 3. Write a JavaScript program to display the reading status (i.e. display book name, author name and reading status) of the following books

redmine.md 4/24/2023

## 4. Write a JavaScript program to get the volume of a Cylinder with four decimal places using object classes

Volume of a cylinder:  $V = \pi r^2 h$  where r is the radius and h is the height of the cylinder.

5. Write a JavaScript program which returns a subset of a string

Sample Data: dog Expected Output: ["d", "do", "dog", "o", "og", "g"]

6. Write a JavaScript program to create a Clock.

Note: The output will come every second. Expected Console Output: "14:37:42" "14:37:43" "14:37:44" "14:37:45" "14:37:46" "14:37:47"

7. Write a JavaScript program to calculate the area and perimeter of a circle.

Note: Create two methods to calculate the area and perimeter. The radius of the circle will be supplied by the user.

- 8. Write a JavaScript function to retrieve all the values of an object's properties
- 9.. Write a JavaScript function to get a copy of the object where the keys have become the values and the values the keys.
- 10Write a JavaScript function to check whether an object contains given property
- 11Write a JavaScript program to calculate the factorial of a number.

In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n. For example,  $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$ 

12Write a JavaScript program to get integers in the range (x, y) using recursion

Example: range(2, 9) Expected Output: [3, 4, 5, 6, 7, 8]

- 13.**Tim hieu thuat toan selection sort** (Hieu ro)
- 14.**Tim hieu thuat toan merge sort** (Hieu ro)