Client-Side-Coding Practice Lab- Parth Gosar

i. Working with DOM Page Objects accessible in JavaScript

File DOM Objects in JavaScript attached.

1.

```
> navigator
<  ▶ Navigator {vendorSub: '', productSub: '20030107', vendor: 'Google Inc.', maxTouchPoints: 10, scheduling: Scheduling, …}
> navigator.appName;
< 'Netscape'
> navigator.appVersion;
< '5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0.0 Safari/537.36 Edg/126.0.0.0'
> navigator.cookieEnabled;
< true
> |
```

The property navigator.appName returns the name of the browser. Here, "Netscape" is the name of a web browser.

The property navigator.appVersion returns a string containing the version information of the browser. It includes details about the operating system and the specific browser versions.

The property navigator.cookieEnabled returns a Boolean value indicating whether cookies are enabled in the browser.

2.

```
> window
<  ▶ Window {window: Window, self: Window, document: document, name: '', location: Location, …}
> window.history;
<  ▶ History {length: 2, scrollRestoration: 'auto', state: null}
> window.status;
< ''
> window.location.href;
< 'file:///C:/Users/HP/Desktop/src/webdvmt/Web_DevSUMMER/Client/DOM%20Objects%20in%20JavaScript.html#'
> window.location;
<  ▶ Location {ancestorOrigins: DOMStringList, href: 'file:///C:/Users/HP/Desktop/src/webdvmt/Web_DevSUMMER/Client/DOM%20Obje
     cts%20in%20JavaScript.html#', origin: 'file://', protocol: 'file:', host: '', …}
>
```

The property on the window object that returns the current URL of the displayed web-page is window.location.href.The window.location.href property is part of the window.location object, which provides information about the current URL of the document loaded in the browser window. This property specifically returns the full URL of the current page as a string.

NOTE: Number 3 is not included since there is nothing specifically assigned for the part.
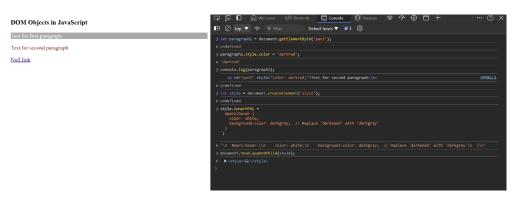
4.

```
> let paragraph1 = document.getElementById('par1');
< undefined
> console.log(paragraph1.innerText);
  Text for first paragraph                                          VM365:1
< undefined
```

5.

```
> let paragraph2 = document.getElementById('par2');
< undefined
> paragraph2.style.color = 'darkred';
< 'darkred'
> console.log(paragraph2);
    <p id="par2" style="color: darkred;">Text for second paragraph</p>          VM482:1
< undefined
>
```

DOM Objects in JavaScript

Text for first paragraph

Text for second paragraph

Null link

6.

DOM Objects in JavaScript

Text for first paragraph

Text for second paragraph

Null link

```
> let paragraph2 = document.getElementById('par2');
< undefined
> paragraph2.style.color = 'darkred';
< 'darkred'
> console.log(paragraph2);
    <p id="par2" style="color: darkred;">Text for second paragraph</p>     VM482:1
< undefined
> let style = document.createElement('style');
< undefined
> style.innerHTML = `
    #par1:hover {
        color: white;
        background-color: darkgray;  // Replace 'darkened' with 'darkgray'
    }
`;
< "\n  #par1:hover {\n    color: white;\n    background-color: darkgray;  // Replace 'darkened' with 'darkgray'\n  }\n"
> document.head.appendChild(style);
< ▶ <style>⊕</style>
>
```

ii.   Creating & Using JavaScript Functions

File Index attached

```
▶ house {rooms: 8, style: 'Ranch', yearBuilt: 1990, hasGarage: true}         index.html:18
8                                                                             index.html:19
Ranch                                                                        index.html:20
1990                                                                         index.html:21
true                                                                         index.html:22
▶ house {rooms: 12, style: 'Tudor', yearBuilt: 1934, hasGarage: true, hasPorch: false, …}   index.html:30
>
```

iii.   JavaScript Object Notation / JSON

File jason_3_1 attached

```
{"name":"James","age":35}                                          jason_3_1.html:11
▼ Object ⓘ                                                         jason_3_1.html:15
    age: 36
    name: "James"
  ▶ [[Prototype]]: Object
James                                                              jason_3_1.html:16
35                                                                 jason_3_1.html:17
Happy birthday, James!                                             jason_3_1.html:20
36                                                                 jason_3_1.html:22
{"name":"James","age":36}                                          jason_3_1.html:26
```

File JSON Reviver Function attached

```
  ▼ Object ⓘ                                              JSON_Reviver_Function.html:19
      age: 35
      name: "James"
    ▶ [[Prototype]]: Object
```

iv.   Extending and customizing JSON output

1. File part1 attached

    Output on Console:

```
  ▼ Object ⓘ                                                          part1.html:14
      name: "User"
      userAge: 30
    ▶ userSiblings: (2) ['Alice', 'Bob']
    ▶ [[Prototype]]: Object
  >
```

2. File part2 attached.

    Output on Console:

```
  {"name":"Pau Gasol","height":{"ft":7,"in":0},"points":50,"position":"Point guard"}    part2.html:13
  >
```

3. File part3 attached.
    Output on Console:

```
  ▼ Object ⓘ                                                          part3.html:16
      day: 9
      hour: 8
      minute: 38
      month: 8
      year: 2015
    ▶ [[Prototype]]: Object
```

4. File part4 attached.
   Output on Console:

```
{"year":2017,"month":4,"day":9}                                        part4.html:17
> |
```

5. File part5 attached.

   Output on Console:

```
{                                                                      part5.html:21
-----"day": "Thursday",
-----"date": {
----------"year": 2015,
----------"month": 2,
----------"day": 12
-----},
-----"time": {
----------"hour": 11,
----------"minute": 44
-----}
}
>
```