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1  /* PRACTICAL-9: Write a demonstrative JavaScript for i) Map, weka map and Set, ii) Function Closure and iii)
   Typed array with ArrayBuffers.
2
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6
7  // CODE:
8
9  // I. Map, WeakMap, and Set
10
11 // Map
12 let map = new Map();
13
14 map.set('Tony', 'Mikaelson');
15 map.set('Pepper', 'Pots');
16
17 console.log("#Map");
18 console.log("--> The Value of 'Tony': " + map.get('Tony'));
19 console.log("--> Map Size: " + map.size);
20
21 // WeakMap
22 let weakMap = new WeakMap();
23 let obj1 = {};
24 let obj2 = {};
25
26 weakMap.set(obj1, 'Gucci');
27 weakMap.set(obj2, 'Dior');
28
29 console.log("\n#WeakMap");
30 console.log("--> 'obj1' in WeakMap: " + weakMap.get(obj1));
31 console.log("--> WeakMap has 'obj2': " + weakMap.has(obj2));
32
33 // Set
34 let set = new Set();
35
36 set.add('A');
37 set.add('B');
38 set.add('C');
39
40 console.log("\n#Set");
41 console.log("--> Size of Set: " + set.size);
42 console.log("--> Set has 'A': " + set.has('A'));
43
44 // II. Function Closure
45
46 function outerFunction() {
47     let outerVariable = '--> This is the Outer Variable';
48     function innerFunction() {
49         console.log(outerVariable);
50     }
51     return innerFunction;
52 }
53
54 let closure = outerFunction();
55 console.log("\n#Function Closure");
56 closure();
57
```

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58 // III. Typed array with ArrayBuffers
59
60 let buffer = new ArrayBuffer(16);
61 let view = new Int32Array(buffer);
62
63 view[0] = 30;
64 view[1] = 11;
65 view[2] = -47;
66
67 console.log("\n#Typed Array with ArrayBuffers");
68 console.log(view);
69
70 console.log("\n-*-*-*-*END OF PRACTICAL 9-*-*-*-*")
```