Practice Exercise

Review Questions

1.	The three forms of if statement in JavaScript are
2.	The syntax of JavaScript if statement is
3.	How to write an if statement for executing some code if "i" is NOT equal to 5?
4.	The syntax of JavaScript if-else statement is
	What does the following expression return? $4 > 1$;
	What does the following expression return?
1	", chatty ', = = = ', chatty ';
7.	What does the following expression return?
1	! false
8.	What does the following code return?
1 2	<pre>var blue = [''da ba dee da ba die'']; blue = = = blue;</pre>
9.	What does the following statement return?
1	[1, 89] = = = [1, 89];
10.	The loops are used to iterate the piece of code. (Yes $/$ No)
11.	The syntax of for loop is
12.	The JavaScript \mbox{while} loop iterates the elements for the infinite number of times mostly.(True / False)
13.	The syntax of do while loop is

- 14. What are the three important manipulations done in a for loop on a loop variable?______.
- 15. A? B: C is equivalent to_____.

Exercises

- Write the expected output, or compiler errors if any, for each of the following programs in the box provided below each program.
- Then execute the programs and check your answers.
- Then answer the questions given below.

program 1

```
if (5 > 10) {
      document.write(''Not so sure about this'');
} else {
      document.write(''walking dead'');
}
```

Q1: What will be the output for the above code snippet?

Q2: What will be the output if condition in if is changed to 5 === 10?

Q3: What will be the output if condition in if is changed to 5 >= 10?

Program 2

```
if (''candy'' === 8) {
    document.write(''do something with your life'');
} else if (''blah'' === ''blah'') {
    document.write(''just chill, have fun'');
} else {
    document.write(''people are strange'');
}
```

Q1: What will be the output for the above code snippet?

Q2: What will be the output if condition in if is changed to "candy" === "8"?

Program 3

```
if ('''') {
      document.write(''program more'');
} else if (''cool'') {
      document.write(''party hard!'');
} else {
      document.write(''blah'');
}
```

Q1: What will be the output for the above code snippet?

Q2: What happens if line 1 is changed to if("hard") {?

Program 4

```
var result = 0;
for (var i = 0; i < 5; i++) {
result += i;
document.write(result);</pre>
```

Q1: What will be the output for the above code snippet?

Q2: What happens if the expression in for loop is changed to i > 5?

Q3: What will be the output if line 3 is changed to result *= i;?

Q4: What happens if line 2 is changed to for (var i = 0; i < 5;) {?

Program 5

```
while (a != 0) {
    if (a == 1)
        continue;
    else
        a++;
    document.write(a);
}
```

Q1: What will be the role of the **continue** keyword in the above code snippet?

Q2: What will be the output if a = 2?

Q3: What will be the output if line 5 is changed to a--; for a=3?

Program 6

```
var i = 2;
while (i <= 10) {
    i = i + 3;
}</pre>
```

Q1: What will be the value of i at the end of while loop?

Program 7

- Q1: What will be the output for the above code snippet?
- Q2: What will be the output if the condition in line 6 is changed to i >= 25?
- Q3: What happens if line 5 is changed to i--;?

Additional Exercises

- 1. Use a for loop to print out the odd numbers from 1 to 20.
- 2. Use a while loop to print out the even numbers from 1 to 20.
- 3. Given a number, if the number is a multiple of 3 print "Fizz". If the number i multiple of 5 print "Buzz". If the number is multiple of 3 and 5 print "FizzBuzz". In all other cases, print the number it-self.
- 4. Write a program to print sum of digits of a given number.
- 5. Write a program to check whether a particular number is perfect square or not.
- 6. Write a program to print prime numbers in a given range.
- 7. Write a program that prints fibonacci series.