| **Learning Objectives** | * Explain How to use JavaScript |
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| **Time** | **Activity** |
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| (3 min) | **OPENING** |
| (1 hours 15 min) | **CONTENT** |
| (10 min) | **DEBRIEF** |
| (2 min) | **CLOSING** |

| **OPENING (3 min)** |
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| **Activity Type** | Reading |
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| **Framing Text** | Welcome to this session about JavaScript’s basics  In this section you will be able to work on programming question that will help you to understand JavaScript programming well. You have to complete all the questions  By the end of this session, you will be able to:   * Syntax of JavaScript working * Creating variables * Using different naming convention * Using numbers and its objects * Using conditional statements if else and nested if else * Building an application similar to calculator. |
| **Assets** | * n/a |

| **CONTENT (1 hours 10 min)** |
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| **Activity Type** | Coding |
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| **Framing Text** | This will take you approximately **1 hours 15 mins** to complete.  After completing it, you will return to code files by zipping in the folders for a debrief.  **Complete:**  Happy coding!   | **Note**: Please reach out to instructors asking for help if you get stuck with understanding of questions | | --- | |
| **Assets** | * Write a program to find the area of a triangle where the length of the sides is 2, 3 and 4. * Write a program to determine whether a given year is a leap year in the Gregorian calendar. * Write a program that will calculate quadratic equations ax^2 + bx + c. You set any value to a, b and c. * Write a program in which you will randomly generate a number between 1 to 10. Save that number in a variable. Now just like in the sync explanation we got the value from and <input> tag. Get the value from the <input> convert it into integer number. Then compare previously randomly generated and input number form the user. If both numbers are same then show alert “Good Job” otherwise show alert “You missed”. * Write a program in which you have to display the number in sorted order. You don’t have to sort through any arrays but you need to use nested if else clause to display the number in sorted order inside the Browser console. You can use Boolean operators to compare the number. Declare and initialize three variables a =3, b= 1 and c = -1. * As previously we have made a program of adding two number. Similarly you have to extend that program and make a calculator with buttons ranging from 0 to 9 and also buttons including + , - , x , / , = . Take input through 2 different <input> fields and also press the button of operation you want to preform. Make a <textarea> for the output and as you press = button answer will be displayed in it. (hint you can use ***switch*** to determine which operation to perform.) |

| **DEBRIEF (15 min)** |
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| **Activity Type:** | Discussion Forum - Ask learners to check for comprehension of the tasks above. |
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