| **Learning Objectives** | * When to use functions? * What are anonymous functions and generator functions * Using recursion to solve iterative functions * How to use error handing * How to use file handling |
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| **Time** | **Activity** |
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| (3 min) | **OPENING** |
| (1 hours 45 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 in which you be able to work on some advance functions  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:   * Using arrow functions. * Using closures * Using recursions * Using generators * Error handling |
| **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 **2 hours** 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 an arrow function expression called ***greet().*** It should accept a single argument representing a person's name. It should return a greeting string as shown below * Write an arrow function named ***arrayAverage*** that accepts an array of numbers and returns the average of those numbers. * Write an arrow function named ***dashTwixt2Evens*** that accepts a number and inserts dashes (-) between two even numbers. * Convert the following JavaScript function declaration to arrow function syntax.   function counterFunc(counter) {  if (counter > 100) {  counter = 0;  }else {  counter++;  }    return counter;  }   * Write a function that would allow you to do this. (Use closures)   var addSix = createBase(6);  addSix(10); // returns 16  addSix(21); // returns 27   * Write anonymous function that will calculate the mean of array of items passed. * Create 2 input holder in like in the previous exercises. Now create a button and on button call a function. This function should add two integer values. But if a string is added to the integer should display the error in the alter box through error handling. * Create a function ***getmonth(month)*** in which create a list of ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec'] and check if the month is in the list if not ***throw*** error. Now when calling the function try the code where you are calling the function and get the value from <input> html tag and pass to the function. Catch the exception if the is an error. |

| **DEBRIEF (15 min)** |
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| **Activity Type:** | Discussion Forum |
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