01. Chapter One - Introduction to Our Course

* + 001. Welcome to Our Course
  + 002. Who is This Course For
  + 003. Course Contents and How to Use This Course
  + 004. How You can Purchase This Course
  + 005. Setup Your Environment for This Course
  + Resource

02. Chapter Two - Start Your Programming Journey

* + 006. Hello World and Code Structure
  + 007. What is Variables in Javascript
  + 008. Reserved Words and Naming Convention
  + 009. What is Data Types in Javascript : **primetive and object data type, Primetive data type are defined by javascript**

**primetive (number, string, boolean, undefined, null), object data type (array, object, function)**

* + 010. Basic Numbers in Javascript
  + 011. Basic Strings in Javascript
  + 012. Basic Booleans in Javascript
  + 013. What is Null & Undefined in Javascript **(important see again)**
  + 014. Type Conversion with Truthy Falsy Value
  + 015. Octal and Hexadecimal Number in Javascript **(important see again)**
  + 016. All Operators in Javascript
  + 017. What is Statements in Javascript
  + 018. Math Functions Provided by Javascript **(important math function)**
  + 019. Date Functions Provided by Javascript (**important date function)**
  + 020. What is Comments in Javascript
  + Source Codes

03. Chapter Three - Handle Conditions and Logic

* + 021. Logic and Condition in programming
  + 022. What is If Conditions in Javascript
  + 023. What is Else Condition in Javascript
  + 024. What is Else If Condition in Javascript
  + 025. What is Switch Statements in Javascript **(important switch)**
  + 026. Logical Operators in Javascript
  + 027. Ternary Operator in Javascript
  + 028. How to Use And Or Shorthand in Javascript **(important)**
  + Source Codes

04. Chapter Four - Reduce Repeating Tasks with Loops

* + 029. Introduction to Loops in Programming
  + 030. What is For Loop in Javascript **(homework:find even number and odd number upto 100, find number is divided by 7 upto 100)**
  + 031. What is While Loop in Javascript
  + 032. What is Do While Loop in Javascript
  + 033. What is Nested Loop in Javascript **(homework: squre, triboj, )**
  + 034. What is Break Statement in Javascript (**Break )**
  + 035. What is Continue Statement in Javascript **(Continue)**
  + 036. What is Infinity For Loop in Javascript
  + Source Codes

05. Chapter Five - String and It's Uses in Javascript

* + 037. What is String
  + 038. String Literal vs Constructor
  + 039. What is Escape Notation
  + 040. How to Compare Two String
  + 041. String Methods Provided by Javascript **(String Methods)**
  + 042. How to Get Length of a String
  + Source Codes

06. Chapter Six - Array and It's Uses in Javascript **(Working with array)**

* + 043. What is an Array
  + 044. How to Declare an Array in Javascript
  + 045. How to Traverse an Array in Javascript
  + 046. Insert, Remove and Replace Elements in an Array of Javascript
  + 047. How to Search Data from an Array **(homework)**
  + 048. What is Multidimensional Array **(homework)**
  + 049. How to Reverse Array Elements Completely
  + 050. Array Methods Provided by Javascript
  + Source Codes

07. Chapter Seven - Basic Objects in Javascript

* + 051. What is Object
  + 052. Object Literal vs Constructor
  + 053. Accessing Object Properties in Javascript
  + 054. Setting Object Properties in Javascript
  + 055. Remove Object Properties in Javascript
  + 056. How to Compare Two Objects in Javascript
  + 057. How to Iterate Object Properties in Javascript **(homework)**
  + 058. Object Methods Provided by Javascript
  + Source Codes

08. Chapter Eight - How to Use Functions in Javascript

* + 059. What is Function
  + 060. How to Define a Function
  + 061. How to Invoke a Function
  + 062. Arguments and Parameter of a Function **(homework)**
  + 063. Argument Object in Javascript Function**(homework)**
  + 064. How to Return Anything from a Function **(homework)**
  + 065. Function Expressions in Javascript
  + 066. Inner Functions in Javascript **(homework)**
  + 067. What is Function Scoping in Javascript **(see again)**
  + Source Codes

09. Chapter Nine - Functional Programming in Javascript

যে ফাংশনের নাম থাকে না তাকে বলে এনোনিমাস ফাংশন In [computer programming](https://en.wikipedia.org/wiki/Computer_programming), an **anonymous function** (**function literal**, **lambda abstraction**, or **lambda expression**) is a [function](https://en.wikipedia.org/wiki/Function_(computer_science)) definition that is not [bound](https://en.wikipedia.org/wiki/Name_binding) to an [identifier](https://en.wikipedia.org/wiki/Name_(computer_science)).

* + 068. What is Functional Programming
  + 069. What is Pure Function in Javascript
  + 070. First Class Functions in Javascript
  + 071. Higher Order Functions in Javascript
  + 072. Javascript Closure First Look
  + 073. What is Callback Function in Javascript **(see again)**
  + 074. Implementation of ForEach Function **(see again)**
  + 075. Implementation of Map Function **(see again)**
  + 076. Implementation of Filter Function **(see again)**
  + 077. Implementation of Reduce Function **(see again)**
  + 078. Implementation of Find and Find Index Function **(see again)**
  + 079. Sort, Some and Every Function Uses **(see again)**
  + 080. Return a Function from Another Function **(see again)**
  + 081. What is Recursive Function **(see again)** Recursive Function নিজেই নিজেকে কল করে।
  + 082. What is Currying in Javascript **(see again)**
  + 083. What is Function Composition in Javascript **(see again)**
  + Source Codes

10. Chapter Ten - Scope and Closure in Javascript

* + 084. How does Javascript Engine Works
  + 085. Javascript: Compiled vs interpreted
  + 086. What is Execution Context **(see again)**
  + 087. Creation and Execution of a Execution Context
  + 088. How does Variable Object Works
  + 089. Execution Context and Function
  + 090. What is Hoisting Actually **(see again)**
  + 091. Function Declaration vs Expression: What is The Difference **(see again)**
  + 092. Scope: A Deep Look
  + 093. What is Nested Scope
  + 094. What is Lexical Scope in Javascript
  + 095. Scope Chain in Javascript
  + 096. Closure: A Deep Look
  + 097. Closure and Loops Tied Together
  + Source Codes

11. Introduction to Object Oriented Programming

* + 098. Introduction to OOP (Object Oriented Programming)
  + 099. How to Think Everything as an Object
  + 100. Object Properties and Methods
  + 101. What is Class in OOP (Object Oriented Programming)
  + 102. Four Main Pillars of OOP
  + 103. Take a Look at Abstraction
  + 104. Take a Look at Encapsulation
  + 105. Take a Look at Inheritance
  + 106. Take a Look at Polymorphism

12. Chapter Twelve - Object Oriented Programming in Javascript

* + 107. Intro to Object Oriented Programming in Javascript
  + 108. Object Literal with Methods
  + 109. "THIS" Keyword: How it Works
  + 110. Create Class Using Factory pattern
  + 111. Creating Class Using Constructor Pattern
  + 112. "New" Keyword: Create Your Own
  + 113. Factory Pattern vs Constructor Pattern
  + 114. Constructor Property of a Constructor Function
  + 115. Functions are Object in Javascript: Create Function with Function Constructor
  + 116. Bind, Call, Apply: Call Your Function with Your Custom "This" Value
  + 117. Pass By Value vs Pass by Reference - Mutable vs Immutable
  + 118. What is Abstraction in Javascript
  + 119. Hide Private Properties in Javascript
  + 120. How to Use Getter Setter in Javascript
  + Source Codes

13. Chapter Thirteen - Prototype in Javascript

* + 121. Introduction to Inheritance
  + 122. Prototype and Prototypical Inheritance in Javascript (getPrototypeOf(),prototype, getOwnPropertyDescriptor(),defineProperty(), Property Descriptor )
  + 123. Multi Level Inheritance in Javascript
  + 124. What is Property Descriptor in Javascript
  + 125. Constructor Prototype Object of Any Constructor Function
  + 126. Instance vs Prototype Members
  + 127. Using Instance and Protype Members
  + 128. Iterate Object Properties and hasOwnProperty Method
  + 129. Don't Overwrite Built in Prototypes in Javascript Objects
  + Source Codes

14. Chapter Fourteen - Prototypical Inheritance in Javascript

* + 130. Our First Own Prototypical Inheritance
  + 131. Reset Constructor Property After Inheritance
  + 132. Calling super with Call method
  + 133. Creating Extends Function to Reduce Repeating Code
  + 134. Method Overriding in Javascript
  + 135. Polymorphism in Javascript
  + 136. When to Use Inheritance
  + 137. Inheritance and Composition Mixing Together
  + Source Codes

15. Chapter Fifteen - ES6 in Action (All We Need)

* + 138. What is ES6
  + 139. Setup Your Environment for ES6
  + 140. How to Use Template String
  + 141. Let vs Const vs Var: What is the Difference
  + 142. New Arrow Function Syntax in ES6
  + 143. Arrow Functions and This: What is the Benefit **(see again this key word)**
  + 144. How to Use Default Parameter in ES6
  + 145. Rest and Spread Operator in ES6 **(see again)**
  + 146. Enhance Object in ES6
  + 147. What is Destructuring in ES6
  + 148. Object fromEntries Method in ES6
  + 149. What are Symbols in ES6
  + 150. New Environment Setup with Webpack 4 + babel 7
  + 151. What is Iterator: Iterator Basic Idea
  + 152. Create Iterator with ES6 Symbol.Iterator Function
  + 153. How does For of Loop Work
  + 154. What is Generator Functions in ES6
  + 155. How to Create Custom Iterable Object
  + 156. Understanding Sets in ES6
  + 157. Understanding Map in ES6
  + 158. What is Weak Set
  + 159. What is Weak Map
  + 160. New Class Syntax in ES6
  + 161. ES6 Class Properties
  + 162. ES6 Static Method
  + 163. "this" Property and It's Value in ES6 Class
  + 164. Hide Private Data with Symbol
  + 165. Hide Private Properties with Weak Map
  + 166. ES6 Getter and Setter
  + 167. Inheritance in ES6
  + 168. Method Overriding in ES6
  + 169. ES6 Module System Explained
  + Source Codes

16. Chapter Sixteen - Error Handling in Javascript

* + 170. Errors in Javascript: How to Handle
  + 171. Error Handling with If Else Condition Check [Logical Errors]
  + 172. Error Handling with Try Catch Block [Runtime Errors]
  + 173. How to Throw an Error in Javascript
  + 174. Optional Finally Block in Javascript
  + 175. Optional Catch Binding in ESNext
  + 176. How to Create a Custom Error in ES6
  + Source Codes

17. Chapter Seventeen - Asynchronous Javascript in Action

* + 177. Understanding Asynchronous Programming in Javascript
  + 178. Asynchronous Programming is Action (Simulate Using Java & Javascript)
  + 179. How to Store Result Returned from Asynchronous Function
  + 180. Why does Javascript Act Like Asynchronous
  + 181. How does Javascript Handle Asynchronous Programming
  + 182. NodeJS vs Browser: Does Javascript Act Same [V8 Engine]
  + 183. How to Handle Asynchronous Operations in Javascript
  + 184. What is Ajax (Asynchronous Javascript and XML)
  + 185. How to Handle XMLHttpRequest Using Callback
  + 186. Callback Not Always Mean Asynchronous
  + 187. Callback is Not Always a Good Solution
  + 188. What is Promise, Take a Look at It
  + 189. Implement Your Own Version of Fetch API
  + 190. Functionalities Came with Promise
  + 191. Async Function with Await Keyword
  + 192. Async Iterator in Action
  + 193. Async Iterator and For Await Of Loop
  + 194. Create Async Iterator Using Async Generators
  + Source Codes

18. Chapter Eighteen - DOM (Document Object Model) Manipulation with Ajax

* + 195. Introduction to DOM - Document Object Model
  + 196. Understanding The Window Object in DOM
  + 197. Understanding The Document Object in DOM
  + 198. Basic Selectors in DOM Manipulation
  + 199. Query Selectors in DOM Manipulation
  + 200. What is The Difference Between Two Selectors (getElement vs Query Selector)
  + 201. How to Traverse DOM Elements
  + 202. How to Loop Throw HTML Collections
  + 203. How to Create DOM Elements
  + 204. Insert Created Element Using Adjacent Element
  + 205. Update and Remove any DOM Element
  + 206. How to Clone Node Include It's Child Elements
  + 207. How to Deal with Attributes in DOM Manipulation
  + 208. How to Work with Style in DOM
  + 209. Introducing Events in DOM Manipulation
  + 210. Understanding Event Delegation in DOM Manipulation
  + 211. Input Elements and Event Handling
  + 212. Check Box Element and Event Handling
  + 213. List Item and Input Element Event Handling
  + 214. How to Handle Form Data in DOM
  + 215. How to Validate Form Data in DOM
  + 216. AJAX: How to Send Get Request and Display Data
  + 217. AJAX: How to Send Post Request and Display Data
  + 218. Conclusion of DOM Manipulation
  + Source Codes

19. Chapter Twenty - Popular Libraries and It's Documentation

* + 219. What is Library
  + 220. Introduction to JQuery
  + 221. Introduction to Lodash
  + 222. Introduction to Underscore
  + 223. Introduction to Math JS
  + 224. Introduction to Moment JS
  + 225. Introduction to Collect JS
  + 226. Introduction to Axios JS

20. Chapter Twenty One - Conclusion with Career Road Map

* + 227. Conclusion of this course
  + 228. How to Be A Frontend Developer
  + 229. How to Be A Backend Developer
  + 230. How to Be A Full Stack Developer
  + 231. How to Be A Mobile Apps Developer
  + 232. How to Be A Desktop Apps Developer

21. Chapter NineTeen - Use Javascript to Create a Complete Weather App

* + 233. Introduction to our Project
  + 234. Setup and Resources
  + 235. User Permission for Location
  + 236. Set Weather Information to DOM
  + 237. Handle User Input
  + 238. Setup Backend Server
  + 239. MongoDB Database and Mongoose Setup
  + 240. Create History Model
  + 241. Create Hisotry Router
  + 242. History Request and Update DOM
  + 243. Using Callback to Post New History
  + 244. Deploying Apps to Heroku
  + Source Codes

learning flow chart > javascript>reactjs>redux js>node js>express js>vue js>python>django

electron for desktop application by javascript

01. Chapter One - Introduction to Our Course

* + **primetive and object data type, Primetive data type are defined by javascript**

**primetive (number, string, boolean, undefined, null), object data type (array, object, function)**

* + Break Statement, Continue Statement, Infinity For Loop,
  + String Literal vs Constructor
  + Escape Notation
  + Object Literal vs Constructor
  + Accessing Object Properties
  + 054. Setting Object Properties
  + 055. Remove Object Properties
  + 056. How to Compare Two Objects
  + 057. How to Iterate Object Properties in Javascript **(homework)**
  + 058. Object Methods Provided by Javascript
  + Source Codes

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* + 061. How to Invoke a Function
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* + Pure Function, First Class Functions, , Higher Order Functions, Javascript Closure First Look, Callback Function,ForEach Function, Map Function, Filter Function, Reduce, Function, Implementation of Find and Find Index Function, Sort, Some and Every Function, Return a Function from Another Function, Recursive Function (নিজেই নিজেকে কল করে), What is Currying, What is Function Composition, Scope and Closure, Nested Scope, Lexical Scope, Scope Chain, Closure: A Deep Look

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  + 242. History Request and Update DOM
  + 243. Using Callback to Post New History
  + 244. Deploying Apps to Heroku
  + Source Codes