* Structure of Java Program
* Identifiers
* Keywords
* Variables
* Operators
* Control statements: if, nested if, if else ladder, switch
* Loop: While, Do while, for loop
* break statement, Continue statement
* dynamic initialization
* scope of variables
* Arrays
* Java Comments
* Class
* Object
* Methods
* Adding parameters to methods
* Returning value from methods
* Constructor
* Parameterized constructor
* Static
* This
* Final
* Encapsulation
* Access control (public ,private,default,protected)
* Inheritance
* Super
* Polymorphism
* Overloading, Over ridding
* Abstract classes
* Interfaces
* Instance of operator
* Exception Handling -try ,catch,throw , throws ,finally

User defined exceptions

String,string builder , String buffer ,

String methods (extraction, replace,equals and compare)

Calendar

Collection Framework – array list

Database concepts

**Selenium Topics:**

* + - Lesson 01
      * Disadvantages of manual
      * Definition of automation
      * Why should we automate?
      * Economics of Automation
      * Pre – requisities – Before starting automation
      * Criteria for selection of automation test cases
      * Test Automation process
    - Lesson 02
      * Significance of Selenium
      * Selenium Timelines
      * Limitation of Selenium
      * Selenium Components?
      * Why the Name Selenium
      * Advantages of Selenium over QTP
      * Advantages of QTP over Selenium Summary

Lesson 03 (Cross Browser Testing)

* + - * Configuring the Selenium WebDriver
      * Setting up Internet Explorer Driver Server 22
      * Setting up Chrome Driver for Google Chrome 27
      * Setting up Microsoft WebDriver for Microsoft Edge
    - Lesson 04(Selenium Commands)
      * Selenium WebDriver Browser Command
      * Selenium Navigation Commands
      * Selenium Closing commands
    - Lesson 06 (Locators &Object Identification)
      * Tools to identify elements/objects
      * Firebug
      * IE Developer tools
      * Google Chrome Developer tools
      * Locating elements by ID
      * Finding elements by name
      * Finding elements by link text
      * Finding elements by XPath
      * Finding Elements by using CSS
      * Summary
    - Lesson 06(Web Elements -Part 1)
      * Handle Radio Button in Selenium
      * Handle Check Box in Selenium
      * Select Multiple Checkboxes in Selenium
      * Handle Dropdown Elements in Selenium
      * Capturing screenshots
    - Lesson 07(Web Elements -Part 2)
      * Dynamic Elements
      * Synchronisation
      * Web Tables/HTML Tables
      * Web-Based Popups (Alerts)
      * Windows popup Handling
      * Actions Class
      * Frames

Part 02 :

* + - Lesson 08
      * Testng
      * POM
      * BDD
    - Lesson 09(JDBC)
      * JDBC concepts and terminology
      * JDBC package
      * Creating connection to a DataBase
      * Accessing and manipulating tables using JDBC
      * Sql statements