Comprehensive Assignment

**Problem Statement:**

1. Implement below Program using Java OOPs concepts – Create below three classes and corresponding variables and methods

Account (Base Class) – Include Interest as one variable and corresponding method to calculate Interest and add to the Account

Savings Account (Derived Class) – Implement overridden methods of Account Class

Current Account (Derived Class) – Implement overridden methods of Account Class

1. Implement below program using Python. Create a Python class Student with two variables (Name, Grade and Age).

* Create a display () – To display Name, Grade and Age of an Object created using Student Class.
* Create another class School which inherits from Student class and crate another method SchoolStudentDisplay() – which displays Name, Grade and Age. Which object created using School class.

1. Launch a below browser in Firefox and verify MakeMyTrip logo is present or not on the Page. Implement using Selenium with Web Driver concept: <https://www.makemytrip.com/>
2. Launch a below browser in Chrome and click on Flights and Select One Way to enter FROM and TO locations. ((Find the Web Elements (Flights, One Way, FROM and To Web elements using XPaths)

<https://www.makemytrip.com/>

Note: While Implementing above Program, write generic functions to interact with the browser.

1. Implement 3 and 4 Programs using TestNG Concepts and write it using

@Test annotation.

To launch the browser (Repeated code) maintain it in @BeforeMethod annotation

Generate TestNG HTML Reports and find the Test Results

1. Create a Maven Project and implement all the programs in Maven Project and add all the necessary Jars and run all the programs using Maven Commands
2. Create a branch in GitHub and write all the programs in that branch and push the code into the same branch. Share the GitHub details to evaluate.
3. Create a collection in Postman and create positive and negative cases for below APIs. And use Http methods to get valid responses.

GET: https://api.restful-api.dev/objects/5

POST: https://api.restful-api.dev/objects

PUT: https://api.restful-api.dev/objects/5

DELETE: https://api.restful-api.dev/objects/7

Note: please note that Id will be auto generated so no need to send it while posting a new record.

Verify the HTTP Status Codes, while running Positive and Negative Test Cases.

1. Create Thread Group in Test Plan using JMeter (Use below URL to send request and get the server response)

* Use Assertions in JMeter to validate the Responses
* Use Assertion Results (Use Listeners Concept)

<https://www.makemytrip.com/>

1. Launch a below browser in Chrome and verify W3Schools logo is present on the Page. Implement using Selenium with Web Driver concept (Implement it in Python and use pytest Fixtures)

<https://www.w3schools.com/>