**SOURCE CODE E-LEARNING APPLICATION USING TDD**

//Elearning

package com.app.TDD.demo;

import java.util.HashMap;

import java.util.Map;

public class Elearning {

private Map<String, Integer> getcourse() {

Map<String, Integer> getcourse = new HashMap<>();

Map<String, Integer> course1 = null;

course1.put("Selenium", 10);

Map<String, Integer> course2 = null;

course2.put("Junit", 25);

Map<String, Integer> course3 = null;

course3.put("Git", 2);

return getcourse;

}

public int getcourse(String Topic) {

Map<String, Integer> courseMap = null;

int count = 0;

if (Topic.isEmpty()) {

throw new NullPointerException("Topic Name cannot be empty..");

}

courseMap = getcourse();

if (!courseMap.containsKey(Topic)) {

throw new NullPointerException("Topic Name does not exist");

} else {

count = courseMap.get(Topic);

}

return count;

}

}

//Test Elearning

package com.app.TDD.demo;

import org.testng.Assert;

import org.testng.annotations.Test;

public class TestElearning {

@Test

public void findcourse() {

String Topic = "Selinium";

int Expectedduration = 10;

Elearning cs = new Elearning();

// number of people in the city

int count = cs.getcourse(Topic);

System.out.println(count);

Assert.assertEquals(count, Expectedduration);

}

@Test

public void findEmptyInput() {

try {

String Topic = "";

int Expectedduration = 0;

Elearning cs = new Elearning();

int count = cs.getcourse(Topic);

} catch (NullPointerException e) {

System.out.println("Topic name cannot be empty");

}

}

}