**Ababiya Abajobir**

**CST8130 – Data Structures**

**Assignment #3 – Test Plan Solution**

**Main Menu**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| **Display courses** | **1** | **Outputs the data in the list -** *For College: Algonquin*  *cst8152*  *0 100 2152018 current: 24455.0 previous: 0.0* |
| **Add course** | **2** | **Prompts to enter a course name to add -** E*nter name of course to add:* |
| **Add new block** | **3** | **Prompts user to select a course and if they want to add a good or bad block -** *Add good block or bad?* |
| **Verify chain** | **4** | **User is to select a course and a message will advise if the chain has good block (***Chain is verified***) or if the chain has bad block (***Chain is broken****)*** |
| **Fix a chain** | **5** | **Checks for bad block, fixes the block chain and displays a message “Chain is fixed”** |
| **Quit** | **6** | **Program should end** |
| **Invalid Input** | **-1, 0, a, \** | **Invalid input message** |

Menu 2

|  |  |  |
| --- | --- | --- |
| **Description** | **Input values** | **Output /Result** |
| **Add course name** | **CST-2313** | **Accepted input** |

Menu 3

|  |  |  |
| --- | --- | --- |
| **Description** | **Input values** | **Output /Result** |
| Course selection – proper input  [ 0 cst8152 ]  [ 1 CST-2313 ] | **0, 1** | **Course is selected to add a student** |
| Invalid input in course selection | **5, -1, a** | **Invalid choice message and user needs to enter proper info** |
| After a proper input, the following message pops up -- *Add good block or bad? (g for good, anything else for bad):* | **G, g** | **Add good block – (input requests)**  *Enter date: 123*  *Enter student number: 456*  *Enter grade: 789* |
| After a proper input, the following message pops up -- *Add good block or bad? (g for good, anything else for bad):* | **A, c, 2, -** | **Adds Bad block – (input requests)**  *Enter date: 123*  *Enter student number: 456*  *Enter grade: 789* |

Menu 4 5

The input will be the same as above. You’ll select your course and a message will appear. Please ref to Main Menu test plan for 4 and 5.