**Loh Hao Bin (25461257) Prac 4**

**Task 1 Test Cases**

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| **#** | **Description** | **Test Steps** | **Expected Results** | **Results** |
| 1 | Testing valid cases | Input: [2,3] | It should return 5,12,13 | Pass |
| 2 | Testing negative values | Input: [-5, -10] | It should return a message asking to input positive integers. | Pass |
| 3 | Testing invalid values | Input: [a,b] | It should return message asking to input only integers. | Pass |
| 4 | Testing real values | Input: [2.3, 1] | It should return a message asking to input positive integers. | Pass |

**Task 2 Test Cases**

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| **#** | **Description** | **Test Steps** | **Expected Results** | **Results** |
| 1 | Testing valid year that is not leap | Input: 2014 | It should return “is not a leap year”. | Pass |
| 2 | Testing valid year that is leap | Input: 2012 | It should return “is a leap year”. | Pass |
| 3 | Testing beginning of century that is not divisible by 400 | Input: 1900 | It should return “ is not a leap year” | Pass |
| 4 | Testing year before 1582 | Input: 1400 | It should return “Please input a valid Gregorian calendar year after 1582.” | Pass |
| 5 | Testing invalid values | Input: a | It should return “Please input a valid year in integer.” | Pass |

**Task 3 Test Cases**

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| **#** | **Description** | **Test Steps** | **Expected Results** | **Results** |
| 1 | Testing valid input list size | Input: 3  List: [3,4,5] | It should afterwards repeat 3 times to let the user input 3 items, then return sum of 3 items. Result: [12] | Pass |
| 2 | Testing valid input list size, with a negative input | Input: 3  List: [2, -2, 3] | It should let user input 3 items, then return a sum of items until a negative number is encountered. In this case sum result should be 2. |  |
| 3 | Testing empty list | Input: 0 | It should return sum as 0 | Pass |
| 4 | Testing invalid list size | Input: -1 | It should return “Please input a valid size” | Pass |

**Advanced Task Test Cases**

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| **#** | **Description** | **Test Steps** | **Expected Results** | **Results** |
| 1 | Testing valid month and day | Month: 3  Day: 10 | It should return “Next Monday you should put out GREEN bin.” | Pass |
| 2 | Testing next week | Month: 3  Day: 17 | It should return “Next Monday you should put out YELLOW bin.” | Pass |
| 3 | Testing invalid input | Month: a | It should return “Please enter a valid value.” | Pass |
| 4 | Testing invalid month input | Month: 14  Day: 3 | It should return “Please input a valid month.” | Pass |
| 5 | Testing invalid day input | Month: 2  Day: 31 | It should return “Please input a valid day.” | Pass |
| 6 | Testing beginning or end of year | M,D: 1,1  M,D : 12,31 | For [1,1] it should return “Next Monday you should put out GREEN bin.”  For [12,31] it should return “Next Monday you should put out GREEN bin.” | Pass |