**CST8130 – Data Structures**

**Assignment #1 – Test Plan**

**NAME: Aman Multani**

**COURSE: CST 8130**

**PROFESSOR: Anu Thomas**

**Menu processing**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| Select 2 – no entries in array | 2 – date of 2 1 2017 | Nothing displays under the date |
| Select 3 – no entries in array | 3 – date of 2 1 2017 | Nothing displays under the 7 dates |
| Select 4 – no entries in array | 4 – event type 1  date of 2 1 2017  time 11 0 | Message – no event at this date & time |
| Select 5 – | 5 | Proceeds to file name input |
| Select 1 - | 1 | Proceeds to keyboard input |
| Select 6 | 6 | Nothing to display |
| Select 7 | 7 | Program quits |
| Invalid selection | -1, 6, abc | Message – invalid entry – prompted to reenter choice |

**Selection 1 – Enter from keyboard**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| add Meeting | Choice 1  Type 1  Date of 10/1/2017  Time of 12:00  Description TeamMeeting  Location T306 | Event is added to ArrayList  (confirm with menu choice 6 |
| add School event | Choice 1  Type 2  Date of 10/17/2017  Time of 9:00  Description: 8130-Assign1Due | Event is added to array (confirm with menu choice 6 |
| add work – already event at time | Choice 1  Type 3  Date of 10/1/2017  Time of 12:00  Description: Work  Location: BestBuy  Shift Length: 4 | Cannot add to planner – event already exists at that time – event not added (confirm with menu choice 6) |
| Main menu – choice 1 – invalid Type choice | Choice 1  Type 5, 0, 1, a | Message - Invalid type – reenter type |
| Main Menu – choice 1 – add meeting – numEvents = max | choice of 1  type of 1 | Message - Cannot add to planner – full |
| Error Checking  Invalid entry for any date | Month: -1, 0, 13, a  Day: -1, 0 , 32, a  Year: -1, 0, a | Invalid message – reenter month/day or year as appropriate |
| Error Checking  Invalid entry for any time | Hour: -1, 24, a  Minute: -1, 60, a | Invalid message – reenter hour or minute as appropriate |
| Error Checking  Invalid entry for length of work shift | -1, 0 a | Invalid message – reenter work shift |

**Selection 2 – Display one day**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| Error Checking  Invalid Day Enter | Enter Your Option:  2  Enter month - between 1 and 12: 125 | Enter month - between 1 and 12: |
| Error Checking  Invalid Day Enter | Enter Your Option:  2  Enter month - between 1 and 12: 1  Enter day - between 1 and 31: nbsjefbw | Invalid day input  Enter day - between 1 and 31: |
| Error Checking  Invalid month entry | Enter Your Option:  2  Enter month - between 1 and 12: abcyte,2  Invalid month input  Enter month - between 1 and 12: 255  Enter month - between 1 and 12: nsk  Invalid month input | Enter month - between 1 and 12: |
| Error Checking  Invalid year entry: | Enter Your Option:  2  Enter month - between 1 and 12: 1  Enter day - between 1 and 31: 1  Enter year: -25 abc | Enter year: Invalid day input  Enter year: |

**Selection 3 – Display one week**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| If event doesn’t exist | Enter Your Option:  3  Enter month - between 1 and 12: 3  Enter day - between 1 and 31: 25  Enter year: 20.18  Invalid day input  Enter year: 2018 | Your activities for week starting 2018/3/25 are:  Your activities for 2018/3/25 are:  Your activities for 2018/3/26 are:  Your activities for 2018/3/27 are:  Your activities for 2018/3/28 are:  Your activities for 2018/3/29 are:  Your activities for 2018/3/30 are:  Your activities for 2018/3/31 are: |
| Error Checking  Invalid day entry | Enter Your Option:  3  Enter month - between 1 and 12: 12  Enter day - between 1 and 31: -1basjfbjefbwk | Invalid day input  Enter day - between 1 and 31: |
| Error Checking  Invalid month entry | Enter Your Option:  3  Enter month - between 1 and 12: -1,-25 | Invalid month input  Enter month - between 1 and 12: |
| Error Checking  Invalid month entry | Enter the year: ABC | Enter year: |

**Selection 4 – Delete**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| If Event doesn’t Exist. | Enter Your Option:  4  Enter date and time of event to delete:  Enter month - between 1 and 12: -25  Enter month - between 1 and 12: 2  Enter day - between 1 and 31: 3  Enter year: 2018  Enter hour (0-23): 2  Enter minute (0-59): 30 | No event at that date/time. |
| If Event Exist. | Enter Your Option:  4  Enter date and time of event to delete:  Enter month - between 1 and 12: -1  Enter month - between 1 and 12: +1  Enter day - between 1 and 31: -25  Enter day - between 1 and 31: 25  Enter year: 217  Enter hour (0-23): 2013  Enter hour (0-23): 24  Enter hour (0-23): 23  Enter minute (0-59): 25 | Event deleted |
| Error Checking  Invalid day entry | Enter Your Option:  2  Enter month - between 1 and 12: abc | Invalid month input  Enter month - between 1 and 12: |
| Error Checking  Invalid year input | Enter Your Option:  2  Enter month - between 1 and 12: 5  Enter day - between 1 and 31: -25  Enter day - between 1 and 31: 25 | Enter year: -1997  Enter year: |
| Error Checking  Invalid hour input | Enter the hour (0-23): -1 | Enter hour (0-23): |
| Error Checking  Invalid minute input | Enter the minute (0-59): -19 | Enter Minute (0-59): -19  Enter Minute (0-59): |

**Selection 5 – Input from file**

|  |  |  |
| --- | --- | --- |
| ***Description*** | ***Input values*** | ***Output /Result*** |
| ***List of array*** | ***Not working Properly*** |  |