Project A

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| --- | --- | --- | --- |
| **Input** | **Expected Output** | **Observed Output** | **Explanation** |
| 2 | 4 | 4 | Ensures that Convert receives the double correctly |
| -1 | Throws exception | Exception thrown | Ensures that Program does not send Convert a negative value |
| 0 | Throws exception | Exception thrown | Ensures that Program does not send Convert a value of zero |
| “A” | Throws format exception | Format exception thrown | Ensures that Program does not send Convert a string value which would cause a run-time error |

Project B

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| --- | --- | --- | --- |
| **Input** | **Expected Output** | **Observed Output** | **Explanation** |
| “a” | Throws “Incorrect Time Units” exception | “Incorrect Time Units” exception thrown | Ensures that Modify Input handles incorrect time units |
| “H”/”h” | Accepts short form of hours and converts time | “h” accepted as hours and time converted | Ensures that Modify Input takes short forms |
| “Hour”/”hour” | Throws “Incorrect Time Units” exception | “Incorrect Time Units” exception thrown | Ensures that Modify Input does not accept singular forms of time units |
| 1 | Throws “Incorrect Time Units” exception | “Incorrect Time Units” exception thrown | Ensures that Modify Input does not accept numeric values and no runtime error is caused |

Project C

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| --- | --- | --- | --- |
| **Input** | **Expected Output** | **Observed Output** | **Explanation** |
| Value : 2  Convert From: “d”  Convert to: “h” | 48 | “48 h(s)” | Ensures that the correct multiplier was calculated for days-hours |
| Value: 10  Convert From: “s”  Convert to: “days | 0.000116 | “0.000116 day(s)” | Ensures convert function handles large decimals |
| Value: 1000  Convert From: “days”  Convert to: “minutes” | 1440000 | “1440000 minute(s)” | Ensures correct multiplier calculated for days-minutes and that it can handle larger values |
| Value: 100  Convert From: “s”  Convert to: “seconds” | 100 | “100 second(s)” | Ensures getMultiplier handles same time units and that convert still returns it |