Software Application Test Report

Application: GUI Application Challenge

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Testing was completed on: *2/3/16*

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| **Exhibit 4. Investment Value GUI Summary Report Generation Test Results** | | |  |
| **Test Case** | **Inputs** | **Output** | **Test Passed** |
| 1 | Initial Investment: 100 Periodic Investment: 100 APR: 10 Duration: 20 Compounding: Annual | Investment Value Summary Initial Investment: $100.00 Periodic Investment (annual): $100.00 Annual Return: 10.0% Investment Value after 20.0 years: $6,400.25 | Yes |
| 2 | Initial Investment: 100 Periodic Investment: 100 APR: 10 Duration: 20 Compounding: Monthly | Investment Value Summary Initial Investment: $100.00 Periodic Investment (monthly): $100.00 Annual Return: 10.0% Investment Value after 20.0 years: $76,669.69 | Yes |

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| **Exhibit 3. Investment Value GUI Calculation Test Results** | | | | | |  |  |
| **Test Case** | **Initial Investment** | **Periodic Investment** | **APR (%)** | **Duration (years)** | **Compounding** | **Future Value** | **Test Passed** |
| 1 | 0 | 100 | 10 | 20 | Annual | $5,727.50 | Yes |
| 2 | 100 | 100 | 10 | 20 | Annaul | $6,400.25 | yes |
| 3 | 0 | 100 | 10 | 20 | Semiannual | $12,079.98 | yes |
| 4 | 0 | 100 | 10 | 20 | Quarterly | $24,838.27 | yes |
| 5 | 0 | 100 | 10 | 20 | Monthly | $75,936.88 | yes |
| 6 | 0 | 100 | 10 | 20 | Weekly | $331,493.67 | yes |

**Test Vector Tables with Test Results:**

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| **Exhibit 1. Loan Payment GUI Calculation Test Results** | | | | | |  |  |
| **Test Case** | **Purchase Amount** | **Down Payment** | **APR (%)** | **Duration (years)** | **Compounding** | **Periodic Payment** | **Test Passed** |
| 1 | 350000 | 0 | 10 | 15 | Annual | $46,015.82 | yes |
| 2 | 350000 | 50000 | 10 | 15 | Annaul | $39,442.13 | yes |
| 3 | 350000 | 0 | 10 | 15 | Semiannual | $22,768.00 | yes |
| 4 | 350000 | 0 | 10 | 15 | Quarterly | $11,323.69 | yes |
| 5 | 350000 | 0 | 10 | 15 | Monthly | $3,761.12 | yes |
| 6 | 350000 | 0 | 10 | 15 | Weekly | $866.75 | yes |

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| **Exhibit 2. Loan Payment GUI Summary Report Generation Test Results** | | | | |
| **Test Case** | **Inputs** | **Output** | **Test Passed** |  |
| 1 | Pruchase Amount: 350000 Down Payment: 50000 APR: 10 Duration: 15 Compounding: Annual | Loan Payment Summary Purchase Amount: $350,000.00 Down Payment: $50,000.00 Amount Financed: $300,000.00 APR: 10.0% Compounding: annual Loan Duration (years): 15.0 Payment (annual): $39,442.13 | yes |  |
| 2 | Pruchase Amount: 350000 Down Payment: 50000 APR: 10 Duration: 15 Compounding: Monthly | Loan Payment Summary Purchase Amount: $350,000.00 Down Payment: $50,000.00 Amount Financed: $300,000.00 APR: 10.0% Compounding: monthly Loan Duration (years): 15.0 Payment (monthly): $3,223.82 | yes |  |

**Screen Shot of Test Results:**

