Test Cases

Table 1 Test Cases

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| Test Case ID | Test Scenario | Test Steps | Test Data | Expected Result | Actual Result | Pass / Fail |
| TC01 | Test whether the FFT is computed for arbitrary length of inputs. | 1.Enter the no. of samples.  2. Enter the samples. | 1. 8  2.0, j, 0, 1, 0, j, 0, 1 | FFT should be computed for different lengths of data samples. | FFT is rightly computed for arbitrary length of data samples. | PASS |
| 1. Enter a different no. of samples.  2. Enter the samples again. | 1. 2  2. 1, 1 |
| TC02 | Test whether the FFT is computed for real numbers. | 1. Enter the no. of samples.  2. Enter real samples. | 1. 4  2. 1, -1, 1, -1 | FFT should be computed for real data samples. | FFT is rightly computed for real data samples. | PASS |
| TC03 | Test whether the FFT is computed for complex numbers. | 1. Enter the no. of samples.  2. Enter complex samples. | 1. 4  2. j, 0, -j, 0 | FFT should be computed for complex data samples. | FFT is rightly computed for complex data samples. | PASS |
| TC04 | Test whether the FFT is computed for data samples with even symmetry. | 1. Enter the no. of samples.  2. Enter even data samples. | 1. 4  2. -1+1j, 0, 1+j, 0 | FFT is computed for data samples with even symmetry. | FFT is rightly computed for data samples with even symmetry. | PASS |
| TC05 | Test whether the FFT is computed for data samples with odd symmetry. | 1. Enter the no. of samples.  2. Enter odd data samples. | 1. 4  2. -1-1j, 0, 1+j, 0 | FFT is computed for data samples with odd symmetry. | FFT is rightly computed for data samples with odd symmetry. | PASS |