**Test Results**

Definition File

**Test 1**

**Passed:** True

**Result:** The Turing Machine Application reached the “command:” prompt with no error messages displayed.

**Test 2**

**Passed:** True

**Result:** The Turing Machine Application reached the “command:” prompt with no error messages displayed.

**Test 3**

**Passed:** True

**Result:** The Turing Machine Application prints the error “TAPE\_ALPHABET not found in turing machine definition file.” The application then exits.

**Test 4**

**Passed:** True

**Result:** The view command displays the Turing Machine Definition identical to the definition in the definition file.

**Test 5**

**Passed:** True

**Result:** The Turing Machine Application prints the error “State contains a reserved character.” The application then exits.

**Test 6**

**Passed:** True

**Result:** The Turing Machine Application prints the error “STATES section of definition file is empty.” The application then exits.

**Test 7**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Input alphabet characters cannot be longer than 1 character.” The application then exits.

**Test 8**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Input alphabet cannot be empty.” The application then exits.

**Test 9**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Input alphabet cannot contain reserved characters.” The application then exits.

**Test 10**

**Passed:** True

**Result:** The Turing Machine Application reached the “command:” prompt with no error messages displayed.

**Test 11**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Tape alphabet cannot contain reserved characters.” The application then exits.

**Test 12**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Tape alphabet cannot be empty.” The application then exits.

**Test 13**

**Passed:** True

**Result:** The Turing Machine Application prints the error “The Turing machine definition cannot contain multiple initial states.” The application then exits.

**Test 14**

**Passed:** True

**Result:** The Turing Machine Application prints the error “The INITIAL\_STATES section cannot be empty.” The application then exits.

**Test 15**

**Passed:** True

**Result:** The Turing Machine Application prints the error “The INITIAL\_STATES section cannot be empty.” The application then exits.

**Test 16**

**Passed:** True

**Result:** The Turing Machine Application prints the error “Final state name cannot contain reserved characters.” The application then exits.

**Test 17**

**Passed:** True

**Result:** The Turing Machine Application prints the error “FINAL\_STATES contains an undefined state.” The application then exits.

**Test 18**

**Passed:** True

**Result:** The Turing Machine Application prints the error “FINAL\_STATES section is not the last section in the definition file.” The application then exits.