|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Cases** | **Test Data** | **Expected Result** | **Test Result** | **Pass/Fail** |
| **Test Case 1.**  Check function with valid inputs | ("20/10/2025", "syd", true, "25/10/2025", "mel", "economy", 1, 0, 0)  ("21/10/2025", "del", false, "30/10/2025", "pvg", "first", 1, 0, 1)  ("25/10/2025", "syd", false, "01/11/2025", "lax", "premium economy", 7, 2, 0)  ("22/10/2025", "lax", false, "28/10/2025", "cdg", "economy", 4, 1, 4) | The function should return “true” and initialize the attributes. | The function returns “true” and initialized the attributes. | PASS |
| **Test Case 2.**  Check function with invalid total number of passengers | ("20/10/2025", "syd", false, "25/10/2025", "mel", "economy", 0, 0, 0)  ("22/10/2025", "lax", false, "28/10/2025", "cdg", "economy", 5, 1, 4) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 3.**  Check function with children seated in emergency row seating or first class. | ("20/10/2025", "syd", false, "25/10/2025", "mel", "first", 1, 2, 0)  ("25/10/2025", "syd", true, "01/11/2025", "lax", "economy", 3, 6, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 4.**  Check function with infants seated in emergency row seating or business class. | ("21/10/2025", "del", false, "30/10/2025", "pvg", "business", 1, 0, 1)  ("22/10/2025", "lax", true, "28/10/2025", "cdg", "economy", 4, 0, 4) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 5.**  Check function with invalid number of child passengers per adult. | ("20/10/2025", "syd", false, "25/10/2025", "mel", "economy", 0, 1, 0)  ("25/10/2025", "syd", false, "01/11/2025", "lax", "premium economy", 2, 6, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 6.**  Check function with invalid number of infants per adult. | ("20/10/2025", "syd", false, "25/10/2025", "mel", "economy", 0, 0, 1)  ("20/10/2025", "syd", false, "25/10/2025", "mel", "economy", 4, 0, 5) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 7.**  Check function with departure date in the past. | ("10/10/2025", "syd", false, "25/10/2025", "mel", "economy", 1, 0, 0)  ("05/10/2025", "syd", false, "06/10/2025", "mel", "economy", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 8.**  Check function with invalid date format. | ("12/31/2025", "syd", false, "31/12/2026", "mel", "economy", 1, 0, 0)  ("31/12/2025", "syd", false, "12/31/2026", "mel", "economy", 1, 0, 0)  ("2025/13/31", "syd", false, "31/12/2026", "mel", "economy", 1, 0, 0)  ("31/12/2025", "syd", false, "2026/13/31", "mel", "economy", 1, 0, 0)  ("29/02/2026", "syd", false, "01/03/2026", "mel", "economy", 1, 0, 0)  ("28/02/2026", "syd", false, "29/02/2026", "mel", "economy", 1, 0, 0)  ("1/01/2026", "syd", false, "31/12/2026", "mel", "economy", 1, 0, 0)  ("01/1/2026", "syd", false, "31/12/2026", "mel", "economy", 1, 0, 0)  ("01/01/2026", "syd", false, "1/01/2027", "mel", "economy", 1, 0, 0)  ("01/01/2026", "syd", false, "01/1/2027", "mel", "economy", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 9.**  Check function with invalid return dates. | ("20/10/2025", "syd", false, "19/10/2025", "mel", "economy", 1, 0, 0)  ("20/10/2025", "syd", false, "", "", "economy", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 10.**  Check function with invalid seating classes. | ("20/10/2025", "syd", true, "25/10/2025", "mel", "", 1, 0, 0)  ("20/10/2025", "syd", true, "25/10/2025", "mel", "scum", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 11.**  Check function with invalid emergency row seating. | ("20/10/2025", "syd", true, "25/10/2025", "mel", "premium economy", 1, 0, 0)  ("20/10/2025", "syd", true, "25/10/2025", "mel", "business", 1, 0, 0)  ("20/10/2025", "syd", true, "25/10/2025", "mel", "first", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |
| **Test Case 12.**  Check function with invalid departure and destination airports. | ("20/10/2025", "byd", true, "25/10/2025", "mel", "economy", 1, 0, 0)  ("20/10/2025", "mel", true, "25/10/2025", "lpd", "economy", 1, 0, 0) | The function should return “false” and should not initialize the attributes. | The function returns “false” and initialized the attributes. | PASS |