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CMPE 187 Team 09

Assignment #5

Domain Testing

1. Test values for the age field with expected output and equivalence class

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| **Test Input** | **Expected Result** | **Equivalence Class** |
| < 0 | Invalid age, throw error | Invalid |
| 0 | Travel for free | Age group: 0-4 |
| 1 | Travel for free | Age group: 0-4 |
| 3 | Travel for free | Age group: 0-4 |
| 4 | Travel for free | Age group: 0-4 |
| 5 | 50% discount | Age group: 5-15 |
| 6 | 50% discount | Age group: 5-15 |
| 14 | 50% discount | Age group: 5-15 |
| 15 | 50% discount | Age group: 5-15 |
| 16 | No discount | Age group: 16-64 |
| 17 | No discount | Age group: 16-64 |
| 63 | No discount | Age group: 16-64 |
| 64 | No discount | Age group: 16-64 |
| 65 | 25% discount | Age group: 65 yrs and older |
| > 66 | 25% discount | Age group: 65 yrs and older |

1. Test values for the destination field and age field with destination fare

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| **Destination** | **Expected Result** | | | | |
|  | **Age (Equivalence Class)** | | | | |
|  | **< 0** | **0 - 4** | **5 -15** | **16 - 64** | **>= 64** |
| **Manchester** | invalid | £0.00 | £21.15 | £42.30 | £31.73 |
| **Liverpool** | invalid | £0.00 | £21.15 | £42.30 | £31.73 |
| **Warrington** | invalid | £0.00 | £21.15 | £42.30 | £31.73 |
| **Glasgow** | invalid | £0.00 | £30.90 | £61.80 | £46.35 |
| **Edinburgh** | invalid | £0.00 | £30.90 | £61.80 | £46.35 |
| **Cardiff** | invalid | £0.00 | £15.55 | £31.10 | £23.33 |
| **Swansea** | invalid | £0.00 | £15.55 | £31.10 | £23.33 |
| **Newport** | invalid | £0.00 | £15.55 | £31.10 | £23.33 |

3. Test characters for the Name field

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| **Test Input Characters** | **Expected Result** |
| No input | Invalid name, throw error |
| Any character string | Valid |
| String including numbers and/or symbols | Invalid name, throw error |