1. The most notable obstacle I have faced when working on this project is simply keeping track of all the requirements for the various types of different user inputs, since there are many requirements for what kind of value is acceptable and how to process the values under different conditions. I overcame this obstacle by drawing out flowcharts for each user-entered values that include every possible situation and how the program should react under each situation.

|  |  |
| --- | --- |
| Inputs | Reason |
| “Hotel California”, 19, “USA” | For hotels with revenue lower than $20 million (test revenue calculation) |
| “Hotel California”, 20, “USA” | For hotels with revenue equal to $20 million (test revenue calculation at border value) |
| “Hotel California”, 40, “USA” | For hotels with revenue with revenue between $20 million and $50 million not in Turkey or UAE (test revenue calculation) |
| “Hotel California”, 50, “USA” | For hotels with revenue equal to $50 million not in Turkey or UAE (test revenue calculation at border value) |
| “Hotel California”, 40, “UAE” | For hotels with revenue with revenue between $20 million and $50 million in UAE (test revenue calculation under special situation) |
| “Hotel California”, 50, “UAE” | For hotels with revenue with revenue equal to $50 million in UAE (test revenue calculation at border value under special situation) |
| “Hotel California”, 40, “Turkey” | For hotels with revenue with revenue between $20 million and $50 million in Turkey (test revenue calculation under special situation) |
| “Hotel California”, 50, “Turkey” | For hotels with revenue with revenue equal to $50 million in Turkey (test revenue calculation at border value under special situation) |
| “Hotel California”, 100, “USA” | For hotels with revenue above $100 million not in Turkey or UAE (test revenue calculation) |
| “Hotel California”, 100, “UAE” | For hotels with revenue above $100 million in UAE (test revenue calculation under special situation) |
| “Hotel California”, 100, “Turkey” | For hotels with revenue above $100 million in Turkey (test revenue calculation under special situation) |
| “”, 100, “Turkey” | Empty string provided for identification (test error message) |
| “Hotel California”, -100, “Turkey” | Negative integer provided for revenue (test error message) |
| “Hotel California”, 100, “” | Empty string provided for country (test error message) |