Obstacles:

* Xcode debugger did not show a syntax error where I missed a semicolon. I had to check the code in Visual Studio to find the problem.
* I forgot to initialize the variables at first, causing some abnormal outputs.

Test Cases

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Purpose** | **Units** | **Title** | **Base price** | **Premium** | **Output** |
| cout accuracy testing | | | | | |
| >2 d.p. | 300 | Movie title | 19.1293 | y | Correct |
| 0 d.p. | 300 | Movie title | 19 | y | Correct |
| Error message testing | | | | | |
| Normal input | 300 | Movie title | 19 | y | Correct |
| Negative units | -300 | Movie title | 19 | y | Correct |
| No movie title | 300 |  | 19 | y | Correct |
| Negative price | 300 | Movie title | -19 | y | Correct |
| Non y/n premium | 300 | Movie title | 19 | asdf | Correct |
| Multiple errors | -300 |  | 19 | y | Correct |
| Multiple errors | 300 | Movie title | -19 | asdf | Correct |
| Multiple errors | -300 |  | -19 | asdf | Correct |
| Calculation testing | | | | | |
| Units = 0 | 0 | Movie title | 19.1 | n | Correct |
| Units = 0 | 0 | Movie title | 19.1 | y | Correct |
| Between 0 and 400 | 200 | Movie title | 19.1 | n | Correct |
| Between 0 and 400 | 200 | Movie title | 19.1 | y | Correct |
| Fringe case: 400 | 400 | Movie title | 19.1 | n | Correct |
| Fringe case: 400 | 400 | Movie title | 19.1 | y | Correct |
| Between 400 and 1200 | 900 | Movie title | 19.1 | n | Correct |
| Between 400 and 1200 | 900 | Movie title | 19.1 | y | Correct |
| Fringe case: 1200 | 1200 | Movie title | 19.1 | n | Correct |
| Fringe case: 1200 | 1200 | Movie title | 19.1 | y | Correct |
| Larger than 1200 | 1300 | Movie title | 19.1 | n | Correct |
| Larger than 1200 | 1300 | Movie title | 19.1 | y | Correct |