FUNCTIONAL TEST

1. specification of equivalence partitioning

|  |  |  |  |
| --- | --- | --- | --- |
| Partition ID | Input variable | Valid partition | Invalid partition |
| 1 | pid | pid = 1 | pid = string |
| 2 | pid | pid = int | pid = float |
| 3 | pid | pid = 3 | pid = special character |
| 4 | name | name = ART1301 | name = special character |
| 5 | name | name = string | name = int |
| 6 | name | name = CS 4365 | name = float |
| 7 | price | price = 40 | price < 0 |
| 8 | price | price = float | price = string |
| 9 | price | price = int | Price = char |
| 10 | stock | stock = int | stock = special character |
| 11 | stock | stock = 10 | stock < 0 |
| 11 | stock | stock = 4 | stock = infinity |

1. test case specifications for each partition

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID covered |
| 1 | pid = 1 | Product 1 is displayed | 1 |
| 2 | pid = ‘b’ | Exception is thrown | 1 |
| 3 | pid = \* | Exception is thrown | 3 |
| 4 | name = CS 4365 | CS 4365 | 6 |
| 5 | Name = float | Exception is thrown | 6 |
| 6 | Price = 40 | 40 | 7 |
| 7 | Price = ‘b’ | Error | 8 |
| 8 | Price = char | Exception is thrown | 9 |
| 9 | Stock = \* | Error | 10 |
| 10 | Stock = 10 | 10 | 11 |