Test Cases for Program 2

Instate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case | Description | Input | Expected Output | Status |
| 1 | Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case. | methodResult: “20”  expectedOutput: “20” | pass | pass |
| 2 | Test checkTestCases with two non-matching input ( expected is different from results); verify whether or not this method can detect failing test cases | methodResult: “hello”  expectedOutput: “bye” | fail | pass |
| 3 | Basic check for constructor Instate(String fname, String lname, int credits, int funds). Will see if object is created by using toString() method to see if proper output is received. | Rizwan Chowdhury  Credit : 13  Status : Instate  Funds : 200 | Rizwan Chowdhury  Credit : 13  Status : Instate  Funds : 200 | pass |
| 4 | Test constructor Instate. Check if funds value lower than 0 is passed into constructor then object is created with funds value equal to 0, test will be done through toString() | Rizwan Chowdhury  Credit : 13  Status : Instate  Funds : -200 | Rizwan Chowdhury  Credit : 13  Status : Instate  Funds : 0 | pass |
| 5 | Test constructor Instate.Check if student is part-time ( credit<12) then funds is set to 0 regardless of input. | Rizwan Chowdhury  Credit: 8  Status: Instate  Funds: 299 | Rizwan Chowdhury  Credit: 8  Status: Instate  Funds: 0 | pass |
| 6 | Test toString(). Check if toSting() prints the object and its details: fname, lname, credits, status, and instate funds | Rizwan Chowdhury  Credit: 13  Status: Instate  Funds: 200 | Rizwan Chowdhury  Credit: 13  Status: Instate  Funds: 200 | pass |
| 7 | Test tuitionDue(). Check to see if proper tuition is returned for a part time Instate student. | Name: Tin Fung  Credits: 7  Funds: 300 | 3877 | pass |
| 8 | Test tuitionDue(). Check if method can properly calculate funds for a full time student, taking into account their funds. | Name: Tin Orterry  Credits: 13  Funds: 200 | 6870 | pass |
| 9 | Test tuitionDue(). Check if method returns right answer for student taking greater than 15 credits, should be calculated with 15 credits | Name: Riz Chow  Credit: 17  Funds: 200 | 7736 | pass |

Outstate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case | Description | Input | Expected Output | Status |
| 1 | Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case. | methodResult: “20”  expectedOutput: “20” | pass | pass |
| 2 | Test checkTestCases with two non-matching input ( expected is different from results); verify whether or not this method can detect failing test cases | methodResult: “hello”  expectedOutput: “bye” | fail | pass |
| 3 | Test toString(). Create new Oustate object and see if toString() returns the proper string representation | new Outstate(fname:“Out”, lname:“State”,credit: 20, tristate:false) | Out State:  Credit: 20  Status: Outstate  TristateArea: Yes | pass |
| 4 | Test constructor Outstate. Checks to see if object is created, and will be tested using toString() method. | new Outstate(fname:“Out”, lname:“State”,credit: 20, tristate:false) | Out State:  Credit: 20  Status: Outstate  TristateArea: Yes | pass |
| 5 | Test constructor Outstate. Checks to see if object created as Student outside of tristate area is created properly, the tristate attribute is false. | new Outstate(  fname: “Non”,  lname: “Tristate”,  credit: 14,  tristate: false) | Non Tristate:  Credit: 14  Status: Outstate  Tristate Area: No | pass |
| 6 | Test tuitionDue(). Check if correct tuition is returned for a part time out of tristate student. | new Outstate(  fname: “Jim”  lname: “Bob”  credit: 6  tristate: false) | $5382 | pass |
| 7 | Test tuitionDue(). Check if correct tuition is returned for a full time out of tristate student. | new Outstate(  fname: “Bob”,  lname: “Jim”,  credit: 14,  tristate: false) | $12025 | pass |
| 8 | Test tuitionDue(). Check if correct tuition is returned for a over 15 credit out of tristate student. | new Outstate(  fname: Jay,  lname: Barry,  credit: 19,  tristate: false) | $12781 | pass |
| 9 | Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is part-time. | new Outstate(  fname: Hello,  lname: Bye,  credit: 6,  tristate: true) | $5382 | pass |
| 10 | Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is full-time. | new Outstate(  fname: Bye,  lname: Hello,  credit: 14,  tristate: true) | $9225 | pass |
| 11 | Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is taking more than 15 credits. | new Outstate(  fname: Rizwan,  lname: Chowdhury,  credit: 18,  tristate: true) | $9781 | pass |
| 12 | Test tuitionDue(). Check if correct tuition is returned for a student who is in the tristate area and who is taking more than 12 credits. | new Outstate(  fname: Riz,  lname: Chow,  credit: 12,  tristate: true) | $8113 | pass |

International

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case | Description | Input | Expected Output | Status |
| 1 | Test checkTestCases with two matching inputs to detect whether or not it can verify passing test case. | methodResult: “20”  expectedOutput: “20” | pass | pass |
| 2 | Test checkTestCases with two non-matching input ( expected is different from results); verify whether or not this method can detect failing test cases | methodResult: “hello”  expectedOutput: “bye” | fail | pass |
| 3 | Test toString(). Check if toString() returns proper string representation of International object created. | new International(  fname: United,  lname: Kingdom,  credit: 13,  exchange: false) | United Kingdom:  Credit : 13  Status : International  Exchange : Yes | pass |
| 4 | Test constructor International(). Check if an exchange student is created properly as an Exchange student. Test using toString(). | new International(  fname: Aus,  lname: Tralia,  credit: 14,  exchange: true) | Aus Tralia:  Credit: 14  Status: International  Exchange: Yes | pass |
| 5 | Test constructor International. Check if object created with exchange property false is created as a non exchange student. | new International(  fname: Colom,  lname: Bia,  credit: 13,  exchange: false) | Colom Bia:  Credit: 13  Status: International  Exchange: No | pass |
| 6 | Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is part time. | new International(  fname: South ,  lname: Africa,  credit: 10,  exchange: true) | $1791 | pass |
| 7 | Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is taking 12 credits;12 is threshold between part-time and full-time, so need to check if value calculated properly. | new International(  fname: Chi,  lname: Na,  credit: 12,  exchange: true) | $1791 | pass |
| 8 | Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is full-time. | new International(  fname: Ja,  lname: Pan,  credit: 14,  exchange: true) | $1791 | pass |
| 9 | Test tuitionDue(). Check if proper tuition is calculated for an exchange student who is taking over 15 credits. Should be calculated as 15 credits. | new International(  fname: Fr,  lname: Ance,  credit: 20,  exchange: true) | $1791 | pass |
| 10 | Test tuitionDue(). Check if proper tuition is calculated for a non- exchange student who is part time. | new International(  fname: Ca,  lname: Nada,  credit: 10,  exchange: false) | $10646 | pass |
| 11 | Test tuitionDue(). Check if proper tuition is calculated for a non- exchange student who is taking 12 credits; 12 is threshold between part-time and full-time, so need to check if value calculated properly. | new International(  fname: Bangla,  lname: Desh,  credit: 12,  exchange: false) | $13131 | pass |
| 12 | Test tuitionDue(). Check if proper tuition is calculated for a non- exchange student who is full time. | new International(  fname: Mex,  lname: Ico,  credit: 14,  exchange: false) | $15021 | pass |
| 13 | Test tuitionDue(). Check if proper tuition is calculated for a non- exchange student who is taking over 15 credits.  Should be calculated as 15 credits. | new International(  fname: Ger,  lname: Many,  credit: 19,  exchange: false) | 15966 | pass |