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Lab 02

Outline	Value
Course	SEG 3103
Date	Summer 2021
Professor	Andrew Forward, aforward@uottawa.ca
TA	Zahra Kakavand, zkaka044@uottawa.ca
Team	Xinhao Zhang 8761627

Exercise1

This is an example of running the user registration app on my device

User Registration

UserName: [   ]   **Size of UserName must be between 6 and 12**
Wrong UserName format

FirstName: [   ]

LastName: [   ]

Email: [+@-.AA   ]

Age: [18   ]

City: [Halifax ⌄]

Postal Code: [A0A0A0   ]

[Submit]

Test Case	Expected Result	Actual Results	Verdict(Pass, Fail, Inconclusive)

☰ README.md   ✎

	accepted	accepted	
2	registration request accepted	registration request accepted	Pass
3	registration request accepted	registration request accepted	Pass
4	registration request accepted	registration request accepted	Pass
5	Err1	Err1	Pass
6	Err3	Err1 and Err3	Fail
7	Err3	Err3	Pass
8	Err1	Err1	Pass

Junit Parameterized Runner

This is a screenshot of the output

```
C:\Users\jerem\OneDrive\▯ ▯ \seg3103\seg3103_playground\lab02\ecs>java -jar lib/juni
jar --class-path dist --scan-class-path

Thanks for using JUnit! Support its development at https://junit.org/sponsoring

←[36m.←[0m
←[36m+--←[0m ←[36mJUnit Jupiter←[0m ←[32m[OK]←[0m
←[36m| +--←[0m ←[36mDateTest←[0m ←[32m[OK]←[0m
←[36m| | '--←[0m ←[34mnextDate_sample()←[0m ←[32m[OK]←[0m
←[36m| '--←[0m ←[36mBitTest←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mconstructor_int_ok()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mconstructor_int_tooLarge()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mconstructor_int_tooSmall()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mconstructor_Bit()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mhashCode_values()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mgetIntValue()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mequals()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mtoString_values()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mor()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mand()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mnot()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34mxor()←[0m ←[32m[OK]←[0m
←[36m|    +--←[0m ←[34msetValue()←[0m ←[32m[OK]←[0m
←[36m|    '--←[0m ←[34mconstructor_default_0()←[0m ←[32m[OK]←[0m
←[36m'--←[0m ←[36mJUnit Vintage←[0m ←[32m[OK]←[0m
←[36m  '--←[0m ←[36mBitAndTest←[0m ←[32m[OK]←[0m
←[36m    +--←[0m ←[36m[0]←[0m ←[32m[OK]←[0m
←[36m    | '--←[0m ←[34mtestAnd[0]←[0m ←[32m[OK]←[0m
←[36m    +--←[0m ←[36m[1]←[0m ←[32m[OK]←[0m
←[36m    | '--←[0m ←[34mtestAnd[1]←[0m ←[32m[OK]←[0m
←[36m    +--←[0m ←[36m[2]←[0m ←[32m[OK]←[0m
←[36m    | '--←[0m ←[34mtestAnd[2]←[0m ←[32m[OK]←[0m
←[36m    '--←[0m ←[36m[3]←[0m ←[32m[OK]←[0m
←[36m      '--←[0m ←[34mtestAnd[3]←[0m ←[32m[OK]←[0m


Test run finished after 86 ms
[         9 containers found      ]
[         0 containers skipped    ]
[         9 containers started    ]
[         0 containers aborted    ]
[         9 containers successful ]
[         0 containers failed     ]
[        19 tests found           ]
[         0 tests skipped         ]
[        19 tests started         ]
[         0 tests aborted         ]
```

Exercise2

This is a screenshot of the output of implementing explicit tests using JUnit 5

```
Thanks for using JUnit! Support its development at https://junit.org/sponsoring

←[36m.←[0m
←[36m+--←[0m ←[36mJUnit Jupiter←[0m ←[32m[OK]←[0m
←[36m| +--←[0m ←[36mDateTest←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample10()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample11()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample12()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample13()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample14()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample15()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample16()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample17()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample18()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample19()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample20()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample1()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample2()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample3()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample4()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample5()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample6()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample7()←[0m ←[32m[OK]←[0m
←[36m| | +--←[0m ←[34mnextDate_sample8()←[0m ←[32m[OK]←[0m
←[36m| | '--←[0m ←[34mnextDate_sample9()←[0m ←[32m[OK]←[0m
←[36m| '--←[0m ←[36mBitTest←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mconstructor_int_ok()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mconstructor_int_tooLarge()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mconstructor_int_tooSmall()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mconstructor_Bit()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mhashCode_values()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mgetIntValue()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mequals()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mtoString_values()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mor()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mand()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mnot()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34mxor()←[0m ←[32m[OK]←[0m
←[36m|     +--←[0m ←[34msetValue()←[0m ←[32m[OK]←[0m
←[36m|     '--←[0m ←[34mconstructor_default_0()←[0m ←[32m[OK]←[0m
←[36m'--←[0m ←[36mJUnit Vintage←[0m ←[32m[OK]←[0m
←[36m   '--←[0m ←[36mBitAndTest←[0m ←[32m[OK]←[0m
←[36m      +--←[0m ←[36m[0]←[0m ←[32m[OK]←[0m
←[36m      | '--←[0m ←[34mtestAnd[0]←[0m ←[32m[OK]←[0m
←[36m      +--←[0m ←[36m[1]←[0m ←[32m[OK]←[0m
←[36m      | '--←[0m ←[34mtestAnd[1]←[0m ←[32m[OK]←[0m
←[36m      +--←[0m ←[36m[2]←[0m ←[32m[OK]←[0m
←[36m      | '--←[0m ←[34mtestAnd[2]←[0m ←[32m[OK]←[0m
←[36m      '--←[0m ←[36m[3]←[0m ←[32m[OK]←[0m
←[36m         '--←[0m ←[34mtestAnd[3]←[0m ←[32m[OK]←[0m
```

This is a screenshot of the output of Parameterized test using JUnit 5

```
←[36m|  '--←[0m ←[36mDateNextDateExceptionTest←[0m ←[32m[OK]←[0m
←[36m|     '--←[0m ←[36mexceptionTest(int)←[0m ←[32m[OK]←[0m
←[36m|        +--←[0m ←[34m[1] 15000231←[0m ←[32m[OK]←[0m
←[36m|        +--←[0m ←[34m[2] 15000229←[0m ←[32m[OK]←[0m
←[36m|        +--←[0m ←[34m[3] 14581512←[0m ←[32m[OK]←[0m
←[36m|        '--←[0m ←[34m[4] 19750650←[0m ←[32m[OK]←[0m
```

This is a screenshot of the output of Parameterized test using JUnit 5

```
←[36m|  |    +--←[0m ←[34m[1] 17000620←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[2] 20050415←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[3] 19010720←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[4] 34560327←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[5] 15000217←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[6] 17000629←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[7] 18001129←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[8] 34530129←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[31m[9] 4440229←[0m ←[31m[X]←[0m ←[31mIndex 7 out of bounds for length 7←[0m
←[36m|  |    +--←[0m ←[31m[10] 20050430←[0m ←[31m[X]←[0m ←[31mday must greater or equal to 1.←[0m
←[36m|  |    +--←[0m ←[34m[11] 34530130←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[12] 34560330←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[13] 19010731←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[34m[14] 34530131←[0m ←[32m[OK]←[0m
←[36m|  |    +--←[0m ←[31m[15] 34561231←[0m ←[31m[X]←[0m ←[31mmonth must be between 1 and 12.←[0m
←[36m|  |    '--←[0m ←[31m[16] 15000231←[0m ←[31m[X]←[0m ←[31mday must less than 28 for month February on a non leap year.←[0m
```