

David Lance

Date Class Testing

Date d = new Date(31,1);

d.getDay()

d.getMonth()

d.incremenetDay();

d.getDay()

d.getMonth()

d.incrementDay();

d.incrementDay();

d.incrementDay();

d.incrementDay();

d.getDay()

d.getMonth()

Date d = new Date(5,2);

Date d2 = new Date(1,6);

d.monthsUntil(d2)

Date d2 = new Date (15,6);

d.monthsUntil(d2)

Date d = new Date(30,4);

Date d2 = new Date (1,1);

d.monthsUntil(d2)

Date d2 = new Date (30,1);

d.monthsUntil(d2)

d2.incrementDay();

d.monthsUntil(d2)

d2.incrementDay();

d.monthsUntil(d2)

Results(- means no output)

-

31

1

-

1

2

-

-

-

-

5

2

-

-

4

-

5

-

-

9

-

9

-

9

-

10

Comments

Setting up a starting Date

Testing get functions

Adding a day and testing gets again

Adding multiple days and getting again

Setting up 2 dates

Checking months until

Checking rounding of months

Setting up 2 dates

Checking months until again

Testing end of month issues

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Account Class Testing

Account a = new Account(20, 10,
.07, .08, 5);

a.getLineFee()

a.setLineFee(15);

a.getLineFee()

a.getRate()

a.setRate (11);

a.getRate ()

a.getSalesTaxRate()

a.setSalesTaxRate (.075);

a.getSalesTaxRate ()

a.getInterestRate()

a.setInterestTaxRate (.085);

a.getInterestTaxRate ()

a.getMonthUsage()

a.setMonthUsage (7);

a.getMonthUsage ()

a.getPastYearusage()

a.getCurrentYearUsage()

a.getBalance()

a.getMonthBill()

a.getAmountPaidThisMonth()

a.recievecePayment(100);

a.getAmountPaidThisMonth()

a.isOnMonthlyPlan()

a.turnOnMonthlyPlan();

a.isOnMonthlyPlan()

a.turnOffMonthlyPlan();

a.isOnMonthlyPlan()

a.isOpen()

a.getAnnniversaryDate()

a.getCustomer()

Results (-means no output)

-

-

20.0

-

15.0

10.0

-

11.0

0.07

-

0.075

0.08

-

0.085

0

-

7

60

0

0.0

0.0

0.0

-

100.0

false

-

true

-

false

false

null

null

Comments

Setting up a test account

Testing getter setters

Testing getter setters

Testing getter setters

Testing getter setters

Testing getter setters

Testing getters

Testing getters

Testing getters

Testing Boolean methods

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Customer Class Testing

```
Customer c = new
Customer("Edward", "Snowden",
"123 Cool Street", new Date(2,8));
c.getFirstName()
c.setFirstName("Eddy");
c.getFirstName()
c.getLastName()
c.setLastName("Snowy");
c.getLastName()
c.getAddress()
c.setAddress("124 Sweet Circle");
c.getAddress()
c.getDate().getMonth()
c.getDate().getDay()
c.setDate(new Date(5,7));
c.getDate().getMonth()
c.getDate().getDay()

c.getElectricAccount()
c.setElectricAccount(new
Account(1,1,1,1,1));
c.getElectricAccount()

c.getGasAccount()
c.setGasAccount(new
Account(1,1,1,1,1));
c.getGasAccount()

c.getWaterAccount()
c.setWaterAccount(new
Account(1,1,1,1,1));
c.getWaterAccount()
```

Results (-means no output)

```
-
-
-
"Edward"
-
"Eddy"
"Snowden"
-
"Snowy"
"123 Cool Street"
-
"124 Sweet Circle"
8
2
-
7
5

null
-
-
Account@46d6bdfd

null
-
-
Account@44ca440b

null
-
-
Account@63f2e80f
```

Comments

```
Setting up test Customer

Testing getter setters

Testing getter setters

Testing getter setters

Testing Account integration

Testing Account integration

Testing Account integration
```

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Advanced Testing

Results (-means no output)

Comments

```
Account acct = new Account(10,  
0.10, 0.05, 0.20, 500)  
acct.openAccount(null, null);  
acct.getBalance()  
acct.setMonthUsage(1000)  
acct.endOfMonthProcessing()  
acct.getMonthBill()  
acct.getBalance()
```

```
-  
-  
-  
0.0  
-  
-  
115.5  
115.5
```

Testing End of Month Processing

```
Account acct = new Account(10,  
0.10, 0.05, 0.20, 500)  
acct.openAccount(null, null);  
acct.receivePayment(150)  
acct.getBalance()  
acct.setMonthlyUsage(1000)  
acct.endOfMonthProcessing()  
acct.getBalance()  
acct.getMonthBill()
```

```
-  
-  
-  
-150.0  
-  
-  
-34.5  
0.0
```

Testing End of Month Processing

```
Account acct = new Account(10,  
0.10, 0.05, 0.20, 500)  
acct.openAccount(null, null)  
acct.setMonthlyUsage(1000)  
acct.endOfMonthProcessing()  
acct.getMonthBill()  
acct.receivePayment(15.50)  
acct.getBalance()  
acct.setMonthlyUsage(1000)  
acct.endOfMonthProcessing()  
acct.getBalance()  
acct.getMonthBill()
```

```
-  
-  
-  
-  
115.5  
-  
100.0  
-  
-  
235.5  
235.5
```

Testing End of Month Processing