

Assignment #23

Customer Table Booking - Requirement 3

In this requirement, you need to validate the name and age of a customer. Also, you need to find if the customer is lucky or not.

1. The name should contain only alphabets and not numbers or special characters.
2. The age is considered valid only if it is greater than equal to 18.(Take the current date as "01-01-2018")
3. A customer is said to be lucky if the repetitive sum of his mobile number is equal to 1.

Ex:- Mobile number 9635285233 is lucky.

step1- $9+6+3+5+2+8+5+2+3+3 = 46$

step 2 - $4+6 = 10$

step 3 - $1+0 = 1$

4. Create a Class Main with the following static methods:

| Method Name | Description |
|---|--|
| static Boolean validateAge(java.util.Date birth) | This method accepts java.util.Date as argument and returns a boolean. Calculate the age and return True if the age of the customer is greater than or equal to 18, else return False |
| static Boolean validateName(String name) | This method accepts a String as argument and returns a boolean. Validate the name of the customer and return True if the name is valid, else return False |
| static Boolean validateLuckyCustomer(String mobile) | This method accepts a String as argument and returns a boolean. Check whether the mobile number of the customer is lucky and return True, else return False |

5. Print the following statements in the main method.

Print "Age is valid" if the age is greater than or equal to 18, else print "Age is invalid".

Print "Name is valid" if the name contains only alphabets (a-z) or (A-Z), else print "Name is invalid".

Print "Lucky Customer" if the sum of the digits of the mobile number is 1, else print "Unlucky Customer".

Sample Input and Output 1:

1. Validate Age
2. Validate Name

3.Lucky Customer
Enter your choice:
1
Enter birthdate:
25-12-1989
Age is valid

Sample Input and Output 2:

1.Validate Age
2.Validate Name
3.Lucky Customer
Enter your choice:
1
Enter birthdate:
29-02-2000
Age is invalid

Sample Input and Output 3:

1.Validate Age
2.Validate Name
3.Lucky Customer
Enter your choice:
2
Enter name:
Jane
Name is valid

Sample Input and Output 4:

1.Validate Age
2.Validate Name
3.Lucky Customer
Enter your choice:
2
Enter name:
Jane Doe
Name is invalid

Sample Input and Output 5:

1.Validate Age
2.Validate Name
3.Lucky Customer
Enter your choice:
3

Enter mobile number:
9597074311
Lucky Customer

Sample Input and Output 6:

1.Validate Age
2.Validate Name
3.Lucky Customer
Enter your choice:
3
Enter mobile number:
9876543210
Unlucky Customer