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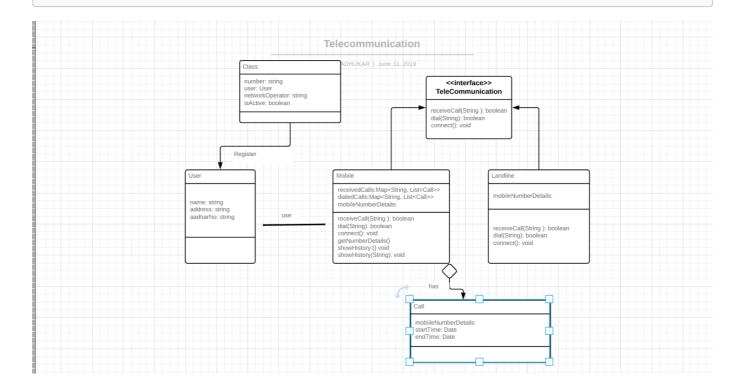
JAVA ASSIGNMENT

Exercise -1

Implement a system to simulate a telephone using OOPS concepts. User Should be able to use functions like: Store its properties, Dial and call, Receive calls, Cancel calls, Store and view call History.

Class Diagram

[sourceFile->JavaAssignment1.java]



Interfaces

Telecommunication

Classes

Mobile

Call

User

PhoneNumber

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Relationships

```
Mobile implements Telecommunication interface
User "uses" mobile
mobile "have" calls(one-to-many)
PhoneNumber "Assigns" to a User (many-to-one)
```

Exercise-2

1. Implement a lift system. There are 2 lifts (A, B) and 5 floors (1-5) The user should give preference of UP/DOWN and floor No.Assume all users enter at same floor, x are viven initially at the time of each request.

```
    The users must be divided equally if possible among each lift.
    Each user must travel minimal to get to their location
    Output: List of users for Lift A and B. Order of exit from lift for each
```

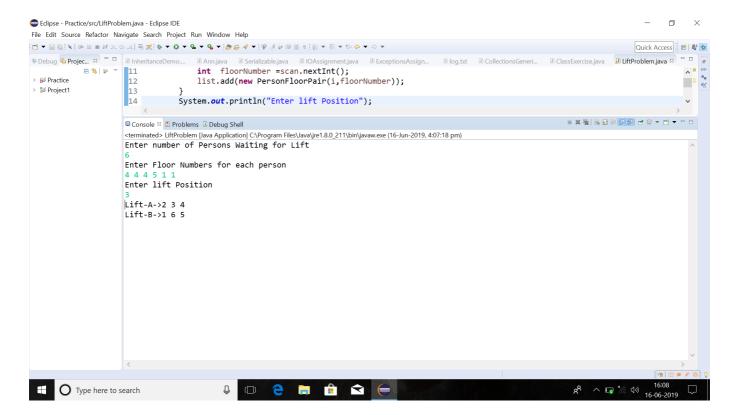
SAMPLEOUTPUT()

```
| DinheritanceDemo.... | DinheritanceDemo...... | DinheritanceDemo.... | DinheritanceDemo..... | DinheritanceDemo.... | DinheritanceDemo..... | DinheritanceDemo.... | DinheritanceDemo..... | DinheritanceDemo.... | DinheritanceDemo.... | DinheritanceDe
```

```
[source->LiftProblem.java]
```

One Edge-Case (more members going up)

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Second-Edge case(more members going down)

