Encapsulation Questions

1. Design a Customer class in Java with private attributes for customer information, including`*id*`, `*name*`, `*email*`, `*phone*`, `*password*`, and `*address*`. Implement encapsulation by providing appropriate getters and setters for each attribute.
   Create one object of Customer & take the inputs from the user, set the values & display the values using setter and getters.

   Sample Input:
   1
   Alex
   alex@gmail.com
   9988776655
   Alex@123
   Btm layout, Bengaluru

   Sample Output:
   1
   Alex
   alex@gmail.com
   9988776655
   Alex@123
   Btm layout, Bengaluru

2. Design a Customer class in Java with private attributes for customer information, including`*id*`, `*name*`, `*email*`, `*phone*`, `*password*`, and `*address*`. Implement encapsulation by providing appropriate getters and setters for each attribute.
   Create multiple objects of Customer according to the user & take the inputs from the user, set the values & display the values using setter and getters.

   Sample Input:
   3
   1
   Alex
   alex@gmail.com
   9988776655
   Alex@123
   Btm layout, Bengaluru

```
2
Bob
bob@gmail.com
8899664455
Bob@123
Banashankari, Bengaluru

3
Aravind
aravind@gmail.com
9988776655
Aravind@123
Jnanabharathi, Bengaluru
```

Sample Output:

```
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

2
Bob
bob@gmail.com
8899664455
Bob@123
Banashankari, Bengaluru

3
Aravind
aravind@gmail.com
9988776655
Aravind@123
Jnanabharathi, Bengaluru
```

3. Design a Customer class in Java with private attributes for customer information, including`id`, `name`, `email`, `phone`, `password`, and `address`.Create an appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.
   Create an object of Customer & take the inputs from the user, set the values using constructor display the values using getters.

Sample Input:
1,Alex , alex@gmail.com , 9988776655 , Alex@123 , Btm layout Bengaluru

Sample Output:
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

4. Design a Customer class in Java with private attributes for customer information, including`*id*`, `*name*`, `*email*`, `*phone*`, `*password*`, and `*address*`.Create a appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.
Create an object of Customer class and take the inputs from the user, verify the email whether it contains domain name either `*gmail.com*` or `*yahoo.com*` then set the values and display the values using the setter and getters.

Sample Input:
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

Sample Output:
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

5. Design a Customer class in Java with private attributes for customer information, including`*id*`, `*name*`, `*email*`, `*phone*`, `*password*`, and `*address*`.Create a appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.
Create an object of Customer class and take the inputs from the user, verify the mobile number starts with any of the following numbers 6, 7, 8 or 9, then set the values and display the values using the setter and getters.

Sample Input:
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

Sample Output:
1
Alex
alex@gmail.com
9988776655
Alex@123
Btm layout, Bengaluru

6. Design a Restaurant class in Java with private attributes for restaurant information, including`*id*`, `*name*`, `*email*`, `*phone*` and `*address*`. Implement encapsulation by providing appropriate getters and setters for each attribute.
   Create an object of Restaurant class and take the user inputs and set the values and display the values using setters and getters.

   Sample Input:
   1
   Donne Biryani
   donnebiryani@gmail.com
   6677889955
   Btm layout, Bengaluru

   Sample Output:
   1
   Donne Biryani
   donnebiryani@gmail.com
   6677889955
   Btm layout, Bengaluru

7. Design a Restaurant class in Java with private attributes for restaurant information, including`*id*`, `*name*`, `*email*`, `*phone*`, and `*address*`. Implement encapsulation by providing appropriate getters and setters for each attribute.
   Create multiple objects of the Restaurant according to the user & take the

inputs from the user, set the values & display the values using setter and getters.

Sample Input:

```
3
1
Donne Biryani
donnebiryani@gmail.com
6677889955
Btm layout, Bengaluru

2
Rotti Mane
rottimane@gmail.com
7895456123
Choodasandra, Bengaluru

3
Swadishta
swadishta@gmail.com
2354869575
Marathahalli, Bengaluru
```

Sample Output:

```
1
Donne Biryani
donnebiryani@gmail.com
6677889955
Btm layout, Bengaluru

2
Rotti Mane
rottimane@gmail.com
7895456123
Choodasandra, Bengaluru


3
Swadishta
swadishta@gmail.com
2354869575
Marathahalli, Bengaluru
```

8. Design a Restaurant class in Java with private attributes for restaurant information, including`*id*`, `*name*`, `*email*`, `*phone*`, and `*address*`.Create an appropriate constructor and implement encapsulation by providing appropriate setters and getters for each attribute.
   Create an object of Restaurant & take the inputs from the user, set the values using constructor display the values using getters.

   Sample Input:
   1,Donne Biryani , donnebiryani@gmail.com , 6677889955 , Btm layout Bengaluru

   Sample Output:
   1
   Donne Biryani
   donnebiryani@gmail.com
   6677889955
   Btm layout, Bengaluru

9. Design a Restaurant class in Java with private attributes for Restaurant information, including`*id*`, `*name*`, `*email*`, `*phone*`, and `*address*`.Create a appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.
   Create an object of Restaurant class and take the inputs from the user, verify the email whether it contains the domain name as the name of the restaurant then set the values and display the values using the setter and getters.

   Sample Input:
   1
   Donne Biryani
   biryani@donnebiryani.com
   6677889955
   Btm layout, Bengaluru

   Sample Output:
   1
   Donne Biryani
   biryani@donnebiryani.com
   6677889955
   Btm layout, Bengaluru

10. Design a Restaurant class in Java with private attributes for restaurant information, including`*id*`, `*name*`, `*email*`, `*phone*`, and `*address*`.Create a appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.

Create an object of Restaurant class and take the inputs from the user, verify the mobile number starts with any of the following numbers 6, 7, 8 or 9, then set the values and display the values using the setter and getters.

Sample Input:

1
Donne Biryani
donnebiryani@gmail.com
6677889955
Btm layout, Bengaluru

Sample Output:

1
Donne Biryani
donnebiryani@gmail.com
6677889955
Btm layout, Bengaluru

11. Design a Menu class in Java with private attributes for menu information, including `*id*`, `*name*`, `*price*`*, and* `*description*` . Implement encapsulation by providing appropriate getters and setters for each attribute. Create one object of Menu & take the inputs from the user, set the values & display the values using setter and getters.

    Sample Input:

    1
    Paneer Butter Masala
    250
    A butter rich paneer curry

    Sample Output:

    1
    Paneer Butter Masala
    250
    A butter rich paneer curry

12. Design a Menu class in Java with private attributes for menu information, including `*id*`, `*name*`, `*price*`*, and* `*description*`. Implement encapsulation by providing appropriate getters and setters for each attribute.
    Create multiple objects of Menu according to the user & take the inputs from the user, set the values & display the values using setter and getters.

    Sample Input:

3
1
Paneer Butter Masala
250
A butter rich paneer curry

2
Green Peas Pulav
180
Enriched with green peas cooked with basmati rice

3
South Indian Thali
160
Two Chapati, Two Bhaji, One Sweet, Butter Milk, Steam Rice

Sample Output:
1
Paneer Butter Masala
250
A butter rich paneer curry

2
Green Peas Pulav
180
Enriched with green peas cooked with basmati rice

3
South Indian Thali
160
Two Chapati, Two Bhaji, One Sweet, Buttermilk, Steam Rice

13. Design a Menu class in Java with private attributes for menu information, including*`id`, `name`, `price`, and `description`*.Create an appropriate constructor and implement encapsulation by providing appropriate getters and setters for each attribute.
Create an object of Menu & take the inputs from the user, set the values using constructor display the values using getters.

Sample Input:
1,Paneer Butter Masala, 250, A butter rich paneer curry

Sample Output:

```
1
Paneer Butter Masala
250
A butter rich paneer curry
```