Assignment 1 Rubric

Category	Marks	Remarks
Correct Implementation	5 1.25 x 4	(See the test case below)
Identifying Classes	5 (1 x 5)	Following classes have to be created: 1. Cowin/Portal or equivalent 2. Hospital 3. Citizen or equivalent 4. Vaccine 5. Slot or equivalent
Data Encapsulation	5 (1 x 5)	All 5 classes mentioned above should have their parameters marked as private
Class Relationships	4 (1 x 4)	● Portal should maintain a list of hospitals, citizens and vaccines. ● Hospital/Portal should have a list of slots ● The slot class should have an association with Vaccine: Slot should have vaccine object set either via passing to the constructor or via a member function {If Vaccine is used as a String then 0.5 marks} ● Citizen should have an association with Vaccine: should not instantiate vaccine, but have a vaccine-type field. {If Vaccine is used as a String then 0.5 marks}
Misc	1 (0.5 x 2)	Each hospital and citizen object should have a unique ID (For citizen: via user input, For hospital: using static ids or random number generator)
Total	20	

Some Instructions:
- Go through the concepts of class relationships
- Input is given in **blue** and points to check in **red**
- A slight variation in output is fine

CoWin Portal initialized....

1

Vaccine Name: **Covaxin**

Number of Doses: **2**

Gap between Doses: **3**

Vaccine Name: Covaxin, Number of Doses: 2, Gap Between Doses: 3

2

Hospital Name: **AIIMS**

PinCode: **110011**

Hospital Name: AIIMS, PinCode: 110011, Unique ID: 0

3

Citizen Name: **Alex**

Age: **25**

Unique ID: **123456123456**

Citizen Name: Alex, Age: 25, Unique ID: 123456123456

Your unique ID is: 123456123456

7

Enter Patient ID: **123456123456**

Citizen REGISTERED   **{1.25 Citizen Registered Status}**

4

Enter Hospital ID: **0**

Enter number of Slots to be added: **2**

Enter Day Number: **1**

Enter Quantity: **1**

Select Vaccine

0. Covaxin

0

Slot added by Hospital 0 for Day: 1, Available Quantity: 1 of Vaccine Covaxin

Enter Day Number: **4**

Enter Quantity: **1**

Select Vaccine

0. Covaxin

0

Slot added by Hospital 0 for Day: 4, Available Quantity: 1 of Vaccine Covaxin

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6

Enter Hospital Id: **0**

Day: 1 Vaccine: Covaxin Available Qty: 1

Day: 4 Vaccine: Covaxin Available Qty: 1

5

Enter patient Unique ID: **123456123456**

 1. Search by area

 2. Search by Vaccine

3. Exit
Enter option: **1**
Enter PinCode: **110011**
0 AIIMS
Enter hospital id: **0**
0-> Day: 1 Available Qty:1 Vaccine:Covaxin
1-> Day: 4 Available Qty:1 Vaccine:Covaxin**{1.25 Citizen able to get vaccinated by pincode search}**
Choose Slot: **0**
Alex vaccinated with Covaxin

7
Enter Patient ID: **123456123456**
PARTIALLY VACCINATED
Vaccine Given: Covaxin
Number of Doses given: 1
Next Dose due date: 4
{1.25 Citizen Registered Partially vaccinated along with next dose and number of doses }

5
Enter patient Unique ID: **123456123456**
 1. Search by area
 2. Search by Vaccine
 3. Exit
Enter option: **2**
Enter Vaccine name: **Covaxin**
0 AIIMS
Enter hospital id: **0**
1-> Day: 4 Available Qty:1 Vaccine:Covaxin
Choose Slot: **1**
Alex vaccinated with Covaxin

7
Enter Patient ID: **123456123456**
FULLY VACCINATED
Vaccine Given: Covaxin
Number of Doses given: 2

6
Enter Hospital Id: **0**
Day: 1 Vaccine: Covaxin Available Qty: 0
Day: 4 Vaccine: Covaxin Available Qty: 0 **{1.25 Quantity decreases to 0 for both slots}**

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