**Encapsulation of Patient Record:-**

package cwarray;

class CWEncap { //class

private String name; //variable

private String address;

private String date\_of\_birth;

private int number;

private String illness;

private String prescription;

public String getName(){ //method

return name;

}

public void setName(String newName){ //method

name = newName;

}

public String getAddress(){

return address;

}

public void setAddress(String newAddress){

address = newAddress;

}

public String getDate\_of\_birth (){

return date\_of\_birth;

}

public void setDate\_of\_birth(String newDate\_of\_birth){

date\_of\_birth = newDate\_of\_birth;

}

public int getNumber(){

return number;

}

public void setNumber (int newNumber){

number = newNumber;

}

public String getIllness (){

return illness;

}

public void setIllness(String newIllness){

illness = newIllness;

}

public String getPrescription (){

return prescription;

}

public void setPrescriptioh(String newPrescription){

prescription = newPrescription;

}

}

**Encapsulation Output ( Run file ) :-**

package cwarray;

public class RunCWEncap { //class

public static void main (String args []){ //method

CWEncap run = new CWEncap(); //object name : run

run.setName("Yvonne");

run.setAddress("Cheras");

run.setDate\_of\_birth("9th June 2002");

run.setNumber(5410);

run.setIllness("Gastric");

run.setPrescriptioh("1 tablet 1 time , 2 times a day after meal");

System.out.println("Patient ID: " + run.getNumber()+ " Name: " + run.getName()+ " Address: " + run.getAddress()+ " Date of birth: " + run.getDate\_of\_birth()+" Illness: " +run.getIllness()+ " Prescription: " + run.getPrescription());

CWEncap data = new CWEncap(); //object name : data

data.setName("Wei Haw ");

data.setAddress("SUNGAI PETANI");

data.setDate\_of\_birth("10th December 1999");

data.setNumber(5411);

data.setIllness("Fever");

data.setPrescriptioh("1 tablet 1 time , 2 times a day after meal");

System.out.println("Patient ID: " + data.getNumber()+ " Name: " + data.getName()+ " Address: " + data.getAddress()+ " Date of birth: " + data.getDate\_of\_birth()+" Illness: " +data.getIllness()+ " Prescription: " + data.getPrescription());

CWEncap record = new CWEncap(); //object name : record

record.setName("Elaine");

record.setAddress("SUNGAI LONG");

record.setDate\_of\_birth("3rd July 1999");

record.setNumber(5412);

record.setIllness("Flu");

record.setPrescriptioh("1 tablet 1 time , 3 times a day after meal");

System.out.println("Patient ID: " + record.getNumber()+ " Name: " + record.getName()+ " Address: " + record.getAddress()+ " Date of birth: " + record.getDate\_of\_birth()+" Illness: " +record.getIllness()+ " Prescription: " + record.getPrescription());

CWEncap save = new CWEncap(); //object name : save

save.setName("Wei Yik ");

save.setAddress("SEGAMAT");

save.setDate\_of\_birth("2nd June 2001");

save.setNumber(5413);

save.setIllness("Cough");

save.setPrescriptioh("1 tablet 1 time , 3 times a day after meal");

System.out.println("Patient ID: " + save.getNumber()+ " Name: " + save.getName()+ " Address: " + save.getAddress()+ " Date of birth: " + save.getDate\_of\_birth()+" Illness: " +save.getIllness()+ " Prescription: " + save.getPrescription());

CWEncap saved = new CWEncap(); //object name : saved

saved.setName("Jia Wen ");

saved.setAddress("MEGAH");

saved.setDate\_of\_birth("27th February 2002");

saved.setNumber(5414);

saved.setIllness("Allergy");

saved.setPrescriptioh("3 times a day after meal");

System.out.println("Patient ID: " + saved.getNumber()+ " Name: " + saved.getName()+ " Address: " + saved.getAddress()+ " Date of birth: " + saved.getDate\_of\_birth()+" Illness: " +saved.getIllness()+ " Prescription: " + saved.getPrescription());

}

}