1.Check 2 person same[100%]

```
class Person
   public int getAge()
```

```
super();
    this.name = name;
    this.age = age;
    this.gender = gender;
}

@Override
public boolean equals(Object obj)
{
    if(obj == null)
        return false;
    if(!(obj instanceof Person))
        return false;
    Person other = (Person)obj;
    if(!(this.name.equals(other.name)))
        return false;
    if(this.age != other.age)
        return false;
    if(this.gender != other.gender)
    {
        return false;
    }
    return true;
}
```

2.Book and Author{100%}

```
package com.company;
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

class Book {
    String isbn;
    String name;
    Author author[];
    double price;
    int qty=0;
    public Book(String isbn,String name,Author author[],double price,int
qty) {
        super();
        this.isbn=isbn;
        this.name=name;
        this.author=author;
        this.price=price;
        this.price=price;
        this.isbn=isbn;
    }
    public Book(String isbn,String name,Author author[],double price) {
        super();
        this.isbn=isbn;
        this.isbn=isbn;
        this.isbn=isbn;
        this.name=name;
        this.name=name;
        this.author=author;
}
```

```
this.price=price;
public String getName(){
public Author[] getAuthor(){
public int getQty(){
public void setQty(int qty) {
public String toString() {
Author() {
String email;
public String getEmail() {
```

```
this.email=email;
}
@Override
public String toString() {
    return "Author[name="+name+",email="+email+"]";
}

public class Main{

public static void main(String[] args) {
    Author[] authors=new Author[2];
    Scanner s=new Scanner(System.in);
    for (int i=0;i<authors.length;i++)
    {
        authors[i]=new Author();
        authors[i].name=s.next();
        authors[i].email=s.next();
        authors[i]=new Author(authors[i].name,authors[i].email);
}
    String bid=s.next();
    s.nextLine();
    String bname=s.nextLine();
    double price=s.nextDouble();
    int qty=s.nextInt();

    Book b=new Book(bid,bname,authors,price,qty);
    System.out.println(b.toString());
}
</pre>
```

3.Beauty parlor{100%}

```
package com.company;
import java.util.*;

class Customers {

   String name ;

   public String getName() {
       return name;
   }

   public void setName(String name) {
       this.name=name;
   }

   public boolean isMemebr() {
       return member;
   }

   public void setMember(boolean member) {
       this.member=member;
   }
}
```

```
public String getMembertype() {
public void setMembertype(String membertype) {
    this.membertype=membertype;
public String toString() {
public String getName() {
public double getServiceExpense() {
public void setServiceExpense(double serviceExpense) {
public double getProductExpense() {
public void setProductExpense(double productExpense) {
public double totalExpense() {
    if (cust.getMembertype().equals("null")) {
```

```
System.out.println( totalExpense1);
       return totalExpense=totalExpense1 + totalExpense2;
    public String toString() {
DiscountRate.getServiceDiscountRate(cust.getMembertype()) + "]";
        else if(service.equals("Gold")) {
        else if(service.equals("Silver")) {
```

```
    else if(service.equals("Silver")) {
        return prodsilverService;
    }
    else
        return 0;
}

public class Main {
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        String name=s.next();
        boolean b=s.nextBoolean();
        String mtype=s.next();
        double serexp=s.nextDouble();
        double prodexp=s.nextDouble();
        Customers c=new Customers(name);
        Visit v=new Visit(c);
        c.setMembertype(mtype);
        v.setServiceExpense(serexp);
        v.setServiceExpense(serexp);
        v.setFroductExpense(prodexp);
        DiscountRate.getServiceDiscountRate(c.getMembertype());
        System.out.println( c.getNembertype());
        System.out.println( v.getServiceExpense());
        System.out.println( v.getProductExpense());
        System.out.println( v.totalExpense());
    }
}
```

4.Batsman and Bowler{100%}

```
package com.company;
import java.util.Scanner;
interface IPlayer {
    String play();
}
class Batsman implements IPlayer{
    @Override
    public String play() {
        return "Batsman is batting";
    }
}
class Bowler implements IPlayer{
    public String play() {
        return "Bowler is bowling";
    }
}
class Coach {
```

5.Rail Compartment{100%}

```
a.notice();
Luggage a= new Luggage();
```

6.Fund Transfer{100%}

```
package com.company;
   String getName() {
   public String toString() {
```

```
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    String idl=sc.nextLine();
    String namel=sc.nextLine();
    int balancel=sc.nextLine();
    String id2=sc.nextLine();
    String name2=sc.nextLine();
    int amount1=sc.nextInt();
    int amount2=sc.nextInt();
    int amount3=sc.nextInt();
    Account1 al = new Account1(id1,name1,balance1);
    System.out.println(al.toString());
    Account1 a2 = new Account1(id2,name2);
    System.out.println(a2.toString());
    al.credit(amount1);
    al.debit(amount2);
    al.transferTo(a2,amount3);
    System.out.println(a1.toString());
    System.out.println(a2.toString());
    System.out.println(a2.toString());
}
```

7.Registered Customer{100%}

```
package com.company;
import java.util.*;
class Address
{
    String l1,12,city,pin;
    Address(String a,String b,String c,String d)
    {
        l1=a;
        l2=b;
        city=c;
        pin=d;
    }
    void setl1(String x)
    {
        this.11=x;
    }
    String getl1()
    {
        return this.11;
    }
    void setl2(String x)
    {
        this.12=x;
    }
    String getl2()
    {
        return this.12;
    }
    void setcity(String x)
    {
        return this.2;
    }
    void setcity(String x)
    {
        return this.2;
    }
}
```

```
String getcity()
void setpin(String x)
String getpin()
String getcustid()
String getcustname()
String get12()
String getcity()
String getpin()
RegCustomer (String custid, String custname, Address address, double
```

```
void setcustname(String x)
    void setcity(String x)
    void setpin(String x)
    void display()
System.out.println("CustomerId:"+this.custid+"\nCustomerName:"+this.custnam
System.out.println("Address1:"+this.address.11+"\nAddress2:"+this.address.1
```

8. Customer and Address {100%}

```
package com.company;
   String getEmpId()
   String getEmpName()
   void setAddress(Address address)
```

```
void setCity(String city)
String getCity()
int getPin()
void storeData(Employee emp)
    address.setAddr2(addr2);
void showData(Employee emp)
```

9.Customer and Invoice{100%}

```
public int getId() {
public int getDiscount() {
```

```
private double amount;

public Invoice(int id, Customer customer, double amount) {
    this.id = id;
    this.customer = customer;
    this.amount = amount;
}

public int getId() {
    return id;
}

public Customer getCustomer() {
    return customer;
}

public void setCustomer(Customer customer) {
    this.customer = customer;
}

public double getAmount() {
    return amount;
}

public void setAmount (double amount) {
    this.amount = amount;
}

public String getCustomerName() {
    return customer.getName();
}

public double getAmountAfterDiscount() {
    return amount - amount * customer.getDiscount() / 100;
}
}
```

10.Instruments{100%}

```
package com.company;
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

abstract class Instrument
{
    abstract void play();
}
class Piano extends Instrument {
    @Override
    void play() {
        System.out.println("Piano");
}
```

```
void play()
void play()
```

11. NoInteraction Exception {100%}

12.StackException

```
class UnionStack
   int pop() throws EmptyStackException
   void display() throws EmptyStackException
   FullStackException()
   public FullStackException(String message)
```

```
EmptyStackException()
{
     }
     public EmptyStackException(String message)
     {
          super(message);
     }
}
```

13.Date Month Year{100%}

```
package com.company;
   public void DayException(){}
  public void MonthException(){}
   public void YearException(){}
   public static int readMonthNumber(int month) throws MonthException
```

```
public static int maximumDay(int monthNumber)
     public static String monthString(int monthNumber) throws MonthException
arr={"January", "Feburary", "March", "April", "May", "June", "July", "August", "Sep
tember", "October", "November", "December"};
```

```
String a=Check.monthString(month);
```

14.Phone Book{100%}

```
package com.company;
import java.util.*;

class Contact
{
    private String empid, fname, lname, cellno, emailed;
    public Contact(String empid, String fname, String lname, String cellno, String emailed)
    {
        this.empid=empid;
        this.fname=fname;
        this.lname=lname;
        this.cellno=cellno;
```

```
this.emailid=emailid;
public void setempid(String empid)
    this.cellno=cellno;
public String getempid()
public String getfname()
public String getlname()
public String getcellno()
```

15.Medicine App{100%}

```
System.out.println("Company Name:"+CompanyName);
System.out.println("Company Address:"+Address);
```

16.Restaurent Info{100%}

```
package com.company;
import java.util.*;

class Restaurent
{
    String name, location, Cuisine, rating;
    public Restaurent(String name, String location, String Cuisine, String rating)
    {
        this.name=name;
        this.location=location;
        this.cuisine=Cuisine;
        this.rating=rating;
    }
    public void setName(String name)
    {
        this.name=name;
    }
    public void setLocation(String location)
    {
        this.location=location;
    }
    public void setCuisine(String Cuisine)
    {
        this.Cuisine=Cuisine;
    }
    public void setRating(String rating)
    {
        this.rating=rating;
    }
}
```

```
public String getName()
   public String getRating()
class DaoLayer{
           Restaurent o=it.next();
```

```
String n1=sc.nextLine();
String c1=sc.nextLine();
String r1=sc.nextLine();
String n2=sc.nextLine();
String l2=sc.nextLine();
String c2=sc.nextLine();
String r2=sc.nextLine();
Restaurent obj1=new Restaurent(n1,11,c1,r1);
Restaurent obj2=new Restaurent(n2,12,c2,r2);
al.add(obj1);
al.add(obj2);
DaoLayer d=new DaoLayer();
d.addRestaurent(al);
}
else{
String info=sc.nextLine();
DaoLayer d=new DaoLayer();
d.searchRestaurent(al,info);
}
}
```

17.Contact app{100%}

```
package com.company;
import java.util.*;

class Contact
{
    private String fName, Name, phNum, emailAdd;
    public Contact(String fName, String lName, String phNum, String
emailAdd)
    {
        this.fName=fName;
        this.lName=lName;
        this.phNum=phNum;
        this.emailAdd=emailAdd;
    }
    public void setFname(String fName)
    {
        this.fName=fName;
    }
    public void setLname(String lName)
    {
        this.lName=lName;
    }
    public void setPhNum(String phNum)
     {
        this.phNum=phNum;
    }
    public void setEmailAdd(String emailAdd)
    {
        this.emailAdd=emailAdd;
    }
}
```

```
public String getFname()
   public String getPhNum()
class DAOLayer
   public Contact searchPerson(ArrayList<Contact> al,String info)
```

```
{
    String fn=sc.nextLine();
    String ph=sc.nextLine();
    String ph=sc.nextLine();
    String e=sc.nextLine();
    String fn1=sc.nextLine();
    String ln1=sc.nextLine();
    String ph1=sc.nextLine();
    String e1=sc.nextLine();
    Contact c1=new Contact(fn,ln,ph,e);
    Contact c2=new Contact(fn1,ln1,ph1,e1);

    al.add(c1);
    al.add(c2);
    DAOLayer obj1=new DAOLayer();
    obj1.addContact(a1);
}
else{
    String fn=sc.nextLine();
    DAOLayer obj=new DAOLayer();
    obj.searchPerson(a1,fn);
}
```