You has been assign a task to develop a software to keep track of customer for a restaurant, menu detail of the restaurant . For auditing purpose you also want to keep record of the order history of customer and total sale of the restaurant. Keeping these requirement in mind complete the following task

class item\_detail

{

int price;

// Create an array to keep detail of the ingredient used in an item

string name;

int id;

static int total\_order=0;

item\_detail(????) /\*create a constructor to initialize the class variable, make use of variable length arguments for input of ingredient\*/

{

??????

}

}

// end of class

class person

{

string name;

int mobile\_no;

int order\_no;

// create an array to keep track of items the person order during his/her visit, a person can visit restaurant multiple time

person(string name,int mobile\_no)

{

this.name=name;

this.mobile\_no=mobile\_no;

order\_no=0;

}

void placeOrder(item\_detail[] a) // this method will accept the item\_detail for one order and store the detail in order history

{

??

}

void displayHistory()

{

// this method will traverse array and display the detail of order the person has placed

}

}

// end of class

class Restaurant

{

// create an array to store the item serve by the restaurant

// create an array that will hold the detail of the customer that visit restaurant

Restaurant() // this constructor will initialize the menu of the restaurant

{

}

void addcustomer(person p) // this method will add customer to the restaurant

{

}

void placeOrder(person p) // this method will accept person object and update the order placed by the person in his/her order history

{

}

void DisplayPersonHistory(person p) // this method will display the detail of the order placed by the person

{

}

void DisplayMenu() // this method will display the item served by the restaurant

{

}

void DisplayBill(Person p) // this method will display the bill of a person

{

}

void totalrevenue() // this method will display the total revenue of the restaurant

{

}

void displayPremiumCustomer()// this method will display the customer who has spent more than 1000 rs in the restaurant

{

}

//end of class

// create a main class that will display option to user for viewing menu of the restaurant.

// view total revenue of the restaurant

// view order history of a person and current bill of a person, a person is identified by his/her mobile number

// view premium customer

// place order

//add customer