

# American International University-Bangladesh

## **TEAM**

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# **Project Title:** Food Court Management Application.

# **Classes**

#### **Appitizers**

```
}
```

#### **Employee**

```
package project;
import java.lang.*;
public class Employee {
        private String name;
        private String empld;
        private double salary;
        public void setName(String name)
        {this.name = name;
        public void setEmpld(String empld)
        {this.empld = empld;}
        public void setSalary(double salary)
        {this.salary = salary;}
        public String getEmpId()
        {return empld;}
        public String getName()
        {return name;}
        public double getSalary()
        {return salary;}
}
```

# **FoodCourt**

```
if(flag==1){System.out.println("Restaurant inserted");}
 else{System.out.println("Restaurant Can not be inserted");}
       public void removeRestaurant(Restaurant r)
 int flag = 0;
               for(int i=0; i<restaurants.length; i++)</pre>
               {
                        if(restaurants[i] == r)
                                 restaurants[i] = null;
                                 flaq = 1;
                                 break:
                        }
               if(flag == 1){System.out.println("Restaurant Removed");}
               else{System.out.println("Resturant can Not be Removed");}
public Restaurant getRestaurant(String rid){
 Restaurant r = null;
               for(int i=0; i<restaurants.length; i++)</pre>
                        if(restaurants[i] != null)
                                 if(restaurants[i].getRid().equals(rid)) {
                                         r = restaurants[i];
                                         break:
                                }
               return r;
}
public void showAllRestaurants(){
               for(Restaurant r : restaurants){
                        if(r!= null)
                        {
                                 System. out. println("*****************************);
                                 System.out.println("Resturant Name: "+ r.getName());
                                 System.out.println("Resturant ID: "+ r.getRid());
System.out.println("-----");
                                 r.showAllFoodItems();
                                 System. out. println("-----");
                                 System. out.println();
                        }
       public void insertEmployee(Employee e)
               int flag = 0;
               for(int i=0; i<employees.length; i++)</pre>
                        if(employees[i] == null)
```

```
employees[i] = e;
                        flag = 1;
                        break;
                }
        if(flag == 1){System.out.println("Employee Inserted");}
        else{System.out.println("Employee can Not be Inserted");}
}
public void removeEmployee(Employee e)
        int flag = 0;
        for(int i=0; i<employees.length; i++)</pre>
        {
                if(employees[i] == e)
                {
                        employees[i] = null;
                        flag = 1;
                        break;
                }
        if(flag == 1){System.out.println("Employee Removed");}
        else{System.out.println("Employee can Not be Removed");}
public Employee getEmployee(String empld)
        Employee e = null;
        for(int i=0; i<employees.length; i++)</pre>
                if(employees[i] != null)
                        if(employees[i].getEmpld().equals(empld))
                                e = employees[i];
                                break:
                        }
        return e;
public void showAllEmployees()
        System. out. println("//////////////);
        for(Employee e : employees)
                if(e!= null)
                        System. out.println("Employee Name: "+ e.getName());
                        System. out.println("Employee Id: "+ e.getEmpld());
                        System.out.println("Salary: "+ e.getSalary());
                        System.out.println();
        System.out.println("///////////////);
}
```

#### **FoodItem**

```
package project;
import java.lang.*;
public abstract class FoodItem implements IQuantity{
        protected String fid;
        protected String name;
        protected int availableQuantity;
        protected double price;
        public void setFid(String fid){this.fid=fid;}
        public void setName(String name){this.name=name;}
        public void setAvailableQuantity(int
availableQuantity){this.availableQuantity=availableQuantity;}
        public void setPrice(double price){this.price=price;}
        public String getFid(){return fid;}
        public String getName(){return name;}
        public int getAvailableQuantity(){return availableQuantity;}
        public double getPrice(){return price;}
        public abstract void showInfo();
        public void addQuantity(int amount)
                if(amount>0)
                {
                        System. out. println ("Previous Quantity: "+ available Quantity);
                        System.out.println("Add Quantity: "+ amount);
                        availableQuantity += amount;
                        System. out. println("Current Quantity: "+ availableQuantity);
                else
                {
                        System. out.println("Can Not Add Quantity");
        public void sellQuantity(int amount)
                if(amount>0 && amount<=availableQuantity)</pre>
                        System. out. println("Previous Quantity:
                                                                 "+ availableQuantity);
                        System. out. println ("Sell Quantity:
                                                                 "+ amount);
                        availableQuantity -= amount;
                        System. out. println ("Current Quantity:
                                                                 "+ availableQuantity);
                }
```

#### **MainDish**

```
package project;
import java.lang.*;
public class MainDish extends FoodItem {
private String category;
        public void setCategory(String category)
                this.category=category;
        public String getCategory()
                return category;
        public void showInfo()
                System.out.println("Food ID: "+getFid());
                System. out.println("Food Name: "+getName());
                System. out. println("Available Quantity: "+getAvailableQuantity());
                System.out.println("Food price:"+getPrice());
          System.out.println("Food category:"+getCategory());
                System.out.println();
        }
```

#### **Restaurant**

}

```
package project;
import java.lang.*;
import fp.FoodItem;
```

```
public class Restaurant implements FoodItemOperations {
        private String rid;
        private String name;
        private FoodItem foodItems[] = new FoodItem[10];
        public void setRid(String rid){this.rid = rid;}
        public void setName(String name){this.name = name;}
        public String getRid(){return rid;}
        public String getName(){return name;}
         public void insertFoodItem(FoodItem f){
  int flag = 0;
                for(int i=0; i<foodItems.length; i++){</pre>
                         if(foodItems[i] == null){
                                 foodItems[i] = f;
                                 flag = 1;
                                 break;
                         }
                }
                if(flag == 1)
                {
                         System.out.println("Food Inserted");
                }
                else
                {
                         System.out.println("Can Not Insert");
                }
```

```
}
public void removeFoodItem(FoodItem f){
 int flag = 0;
                for(int i=0; i<foodItems.length; i++){</pre>
                        if(foodItems[i] == f){
                                foodItems[i] = null;
                                flag = 1;
                                 break;
  }
 }
 if(flag == 1){
  System.out.println("Food has been Removed");
 }
                else{
  System.out.println("Can Not Remove");
 }
}
public FoodItem getFoodItem(String fid){
                FoodItem f = null;
               for(int i=0; i<foodItems.length; i++){
                        if(foodItems[i] != null){
                                 if(foodItems[i].getFid().equals(fid) ){
                                         f = foodItems[i];
                                         break;
                                }
                        }
                }
                return f;
       }
```

```
public void showAllFoodItems(){
    for(FoodItem f : foodItems){
        if(f != null){
            f.showInfo();
        }
    }
}
```

# <u>interfaces</u>

### **EmployeeOperations**

```
package project;
import java.lang.*;
public interface EmployeeOperations {
    void insertEmployee(Employee e);
    void removeEmployee(Employee e);
    Employee getEmployee(String empld);
    void showAllEmployees();
}
```

## **FoodItemOperations**

```
package project;
import java.lang.*;
import fp.FoodItem;
```

```
public interface FoodItemOperations {
    void insertFoodItem(FoodItem f);
    void removeFoodItem(FoodItem f);
    FoodItem getFoodItem(String fid);
    void showAllFoodItems();
}
```

#### **IQuantity**

#### **RestaurantOperations**

```
package project;
import java.lang.*;
public interface RestaurantOperations {
    void insertRestaurant(Restaurant r);
    void removeRestaurant(Restaurant r);
    Restaurant getRestaurant(String rid);
    void showAllRestaurants();
}
```

## <u>Fileio</u>

#### <u>FileReadWriteDemo</u>

package project;

```
import java.lang.*;
import java.io.*;
public class FileReadWriteDemo {
        private File file;
                                                    //to create a File
         private FileWriter writer;
                                           //to write in a file
                                                   //to read from a file
        private FileReader reader;
        private BufferedReader bfr;
                                                   //to read file content as a String
        public void writeInFile(String s)
        {
                          creating a file and writing in it genarates compile time exceptions (Checked
Exceptions).
                          So, we need to write the whole thing in try-catch.
                 */
                 try
                          file = new File("History.txt");
                                                                              //Declaring a file named named
History.txt for creating.
                          file.createNewFile();
                                                                                      //If the file does not
exists, creates and opens the file. else, just opens the file
                          writer = new FileWriter(file, true);
                                                                     //creating the writer object to write in the
file.
                          writer.write(s+"\r"+"\n");
                                                                              //writing a string s in the file. the
"\r" and "\n" has been concat to go to a newline.
                          writer.flush();
                                                                                               //After writing,
we need to flush to indicate that we have completed writing.
                          writer.close();
                                                                                               //After flushing,
we need to close the file to save our writing.
                 catch(IOException ioe)
```

```
{
                         ioe.printStackTrace();
                }
        }
        public void readFromFile()
        {
                         reading from a file genarates compile time exceptions (Checked Exceptions).
                         So, we need to write the whole thing in try-catch.
                */
                try
                {
                         reader = new FileReader(file);
                                                                            //creating the reader object to
read from a file.
                         bfr = new BufferedReader(reader);
                                                                            //creating the BufferedReader
object using the reader object to read the file content.
                         String text="", temp;
                                                                                    //declaring two string
variables to read the file content and storing them.
                         while((temp=bfr.readLine())!=null)
                                                                            //reading one line from the file,
storing it in the variable temp and checking whether it is null or not. It will be null at the end of reading
from the file.
                         {
                                  text=text+temp+"\n"+"\r";
                                                                                    //storing the temp string
in text by concating it with text and "n" and "\r" is used to go to a newline.
                         }
                         System.out.print(text);
                                                                            //printing the whole string in
console.
                                                                                             //closing the file.
                         reader.close();
                }
                catch(IOException ioe)
```

```
{
     ioe.printStackTrace();
}
}
```

#### **Start**

```
package project;
import java.lang.*;
import java.util.*;
import fp.Appitizers;
import fp.Employee;
import fp.FileReadWriteDemo;
import fp.FoodCourt;
import fp.FoodItem;
import fp.MainDish;
import fp.Restaurant;
public class Start {
       public static void main(String args[])
        {
               Scanner sc = new Scanner(System.in);
               FoodCourt fc = new FoodCourt();
               FileReadWriteDemo frwd = new FileReadWriteDemo();
               boolean choice = true;
               try{
```

```
while(choice)
  {
       System.out.println("Choose from the Following Options: ");
       System.out.println("-----");
       System.out.println("1. Employee Management");
       System.out.println("2. Restaurant Management");
       System.out.println("3. Restaurant Food Item Management");
       System.out.println("4. Food Item Quantity Add-Sell");
       System.out.println("5. Exit");
       System.out.println("-----\n");
       System.out.print("You have choosed: ");
       int option = sc.nextInt();
       switch(option)
       {
              case 1:
                 try{
                      System.out.println("************);
                      System.out.println("Employee Management");
                     System.out.println("What do you want to do?\n");
                     System.out.println("-----");
                      System.out.println("1. Insert New Employee");
                     System.out.println("2. Remove an Existing Employee");
                      System.out.println("3. Show All Employees");
                      System.out.println("4. Search An Employee");
                      System.out.println("5. Go Back");
                     System.out.println("-----\n");
                      System.out.print("Enter your option: ");
```

```
int input1 = sc.nextInt();
                              switch(input1)
                              {
                                      case 1:
                                         try{
System.out.println("############");
                                              System.out.println("Insert New Employee");
                                              System.out.print("Enter Employee Name: ");
                                              String name1 = sc.next();
                                              System.out.print("Enter Employee ID: ");
                                             String empld1 = sc.next();
                                              System.out.print("Enter Employee Salary: ");
                                             double salary = sc.nextDouble();
                                              Employee e1 = new Employee();
                                             e1.setEmpId(empId1);
                                             e1.setName(name1);
                                             e1.setSalary(salary);
                                             fc.insertEmployee(e1);
                                              System.out.println("############");
                                             break;
                                              }
```

```
catch (InputMismatchException ime7)
                          {
                                                            ime7.printStackTrace();
       System.out.println("InputMismatchException occured");
                                     }
                                             case 2:
                                               try{
                                               System.out.println("###########");
                                                    System.out.println("Remove Existing
Employee");
                                                    System.out.print("Enter Employee ID: ");
                                                    String empld2 = sc.next();
                                                    Employee e2 = fc.getEmployee(empld2);
                                                    fc.removeEmployee(e2);
                                                    System.out.println("############");
                                                    break;
                                                    }
                                          catch (InputMismatchException ime8)
                          {
                                                            ime8.printStackTrace();
       System.out.println("InputMismatchException occured");
```

```
}
                                     case 3:
                                       try{
                                            System.out.println("############");
                                            System.out.println("Show All Employees");
                                            fc.showAllEmployees();
                                            System.out.println("############");
                                            break;
                                             }
                                  catch (InputMismatchException ime9)
                  {
                                                    ime9.printStackTrace();
System.out.println("InputMismatchException occured");
                             }
                                     case 4:
                                       try{
                                        System.out.println("#############");
                                            System.out.println("Search An Employee");
                                            System.out.print("Enter Employee ID: ");
                                            String empld3 = sc.next();
                                            Employee e3 = fc.getEmployee(empld3);
                                            if(e3!=null)
```

```
"+e3.getName());
                                                          System.out.println("Employee ID:
"+e3.getEmpld());
                                                          System.out.println("Employee Salary:
"+e3.getSalary());
                                                   }
                                                   else
                                                   {
                                                          System.out.println("Employee Does Not
Exists");
                                                   }
                                                   System.out.println("############");
                                                   break;
               }
                                        catch (InputMismatchException ime10)
                         {
                                                          ime10.printStackTrace();
       System.out.println("InputMismatchException occured");
                                    }
                                            case 5:
                                                   System.out.println("#############");
                                                   System.out.println("Go Back");
                                                   System.out.println("#############");
                                                   break;
                                            default:
                                                   System.out.println("#############");
```

System.out.println("Employee Name:

```
System.out.println("Invaild Choice");
                                            System.out.println("############");
                                            break;
                             }
                             System.out.println("************);
                             break;
                             }
                              catch (InputMismatchException ime2)
              {
                                                    ime2.printStackTrace();
System.out.println("InputMismatchException occured");
                        }
                      case 2:
                         try{
                             System.out.println("************);
                             System.out.println("Restaurant Management");
                             System.out.println("What do you want to do?\n");
                             System.out.println("-----");
                             System.out.println("1. Insert New Restaurant");
                             System.out.println("2. Remove an Existing Restaurant");
                             System.out.println("3. Show All Restaurants");
                             System.out.println("4. Search a Restaurant");
                             System.out.println("5. Go Back");
                             System.out.println("-----\n");
                             System.out.print("Enter your option: ");
                             int input2 = sc.nextInt();
                             switch(input2)
```

```
case 1:
                                              try{
                                              System.out.println("############");
                                              System.out.println("Insert New Restaurant");
                                              System.out.print("Enter Restaurant Rid: ");
                                              String rid1 = sc.next();
                                              System.out.print("Enter Restaurant Name: ");
                                              String name1 = sc.next();
                                              Restaurant r1 = new Restaurant();
                                              r1.setRid(rid1);
                                              r1.setName(name1);
                                              fc.insertRestaurant(r1);
                                              System.out.println("############");
                                              break;
                                              }
                                   catch (InputMismatchException ime11)
                  {
                                                     ime11.printStackTrace();
System.out.println("InputMismatchException occured");
                              }
                                      case 2:
                                              try {
```

{

```
System.out.println("Remove An Existing
Restaurant");
                                                     System.out.print("Enter Restaurant RID: ");
                                                     String rid2 = sc.next();
                                                     Restaurant r2 = fc.getRestaurant(rid2);
                                                     fc.removeRestaurant(r2);
                                                     System.out.println("############");
                                                     break;
                                                     }
                                           catch (InputMismatchException ime12)
                          {
                                                            ime12.printStackTrace();
       System.out.println("InputMismatchException occured");
                                     }
                                             case 3:
                                                     try{
                                                     System.out.println("#############");
                                                     System.out.println("Show All Restaurants");
                                                     fc.showAllRestaurants();
                                                     System.out.println("#############");
                                                     break;
                                         catch (InputMismatchException ime13)
```

System.out.println("#############");

```
{
                                                              ime13.printStackTrace();
       System.out.println("InputMismatchException occured");
                                      }
                                               case 4:
                                                      try{
                                                      System.out.println("############");
                                                      System.out.println("Search a restaurant:");
                                                       System.out.print("Enter Restaurant rid: ");
                                                       String rid3 = sc.next();
                                                       Restaurant r3 = fc.getRestaurant(rid3);
                                                      if(r3!=null)
                                                      {
                                                              System.out.println("Restaurant RID:
"+r3.getRid());
                                                              System.out.println("Restaurant Name:
"+r3.getName());
                                                              r3.showAllFoodItems();
                                                      }
                                                      else
                                                              System.out.println("Restaurant Does
Not Exist");
                                                      }
                                                      System.out.println("############");
                                                      break;
                                                       }
                                           catch (InputMismatchException ime14)
```

```
{
                                                   ime14.printStackTrace();
System.out.println("InputMismatchException occured");
                            }
                                    case 5:
                                            System.out.println("#############");
                                            System.out.println("Go Back");
                                            System.out.println("############");
                                           break;
                                    default:
                                            System.out.println("############");
                                            System.out.println("Invaild Choice");
                                            System.out.println("#############");
                                           break;
                             }
                             System.out.println("************");
                             break;
                             }
                              catch (InputMismatchException ime3)
              {
                                                   ime3.printStackTrace();
System.out.println("InputMismatchException occured");
                        }
                     case 3:
```

try{

```
System.out.println("************);
                                      System.out.println("Restaurant Food Item Management");
                                      System.out.println("What do you want to do?\n");
                                      System.out.println("-----");
                                      System.out.println("1. Insert New Food Item For Restaurant");
                                      System.out.println("2. Remove An Existing Food Item Of A
Restaurant");
                                      System.out.println("3. Show All Food Items Of A Restaurant");
                                      System.out.println("4. Search A Food Item of a restaurant ");
                                      System.out.println("5. Go Back");
                                      System.out.println("-----\n");
                                      System.out.print("Enter your option: ");
                                      int input3 = sc.nextInt();
                                      switch(input3)
                                      {
                                              case 1:
                                                try{
                                                     System.out.println("#############");
                                                     System.out.println("Insert New Food Item of a
Restaurant\n");
                                                     System.out.println("Which Type of Food Item Do
you Want to Add?");
                                                     System.out.println("1. Main Dish");
                                                     System.out.println("2. Appitizers");
                                                     System.out.println("3. Go Back");
                                                     System.out.print("Your Type: ");
                                                     int type = sc.nextInt();
                                                     FoodItem f = null;
```

```
if(type == 1)
                                                        {
                                                                System.out.print("Enter FID Of Food: ");
                                                                String fid1 = sc.next();
                                                                System.out.print("Enter Name Of Food:
");
                                                                String name1= sc.next();
                                                                System.out.print("Enter Available
Quantity: ");
                                                                int aq1 = sc.nextInt();
                                                                System.out.print("Enter Price Of The
Food: ");
                                                                double price1 = sc.nextDouble();
                                                                System.out.print("Enter Category Of
The Food: ");
                                                                String category1= sc.next();
                                                                MainDish md = new MainDish();
                                                                md.setFid(fid1);
                                                                md.setName(name1);
                                                                md.setAvailableQuantity(aq1);
                                                                md.setPrice(price1);
                                                                md.setCategory(category1);
                                                                f = md;
                                                        }
                                                        else if(type == 2)
                                                        {
                                                                System.out.print("Enter FID Of Food: ");
                                                                String fid2 = sc.next();
                                                                System.out.print("Enter Name Of Food:
");
```

```
String name2= sc.next();
                                                                  System.out.print("Enter Available
Quantity: ");
                                                                  int aq2= sc.nextInt();
                                                                  System.out.print("Enter Price Of The
Food: ");
                                                                  double price2 = sc.nextDouble();
                                                                  System.out.print("Enter Size Of The
Food: ");
                                                                  String size2= sc.next();
                                                                  Appitizers ap = new Appitizers();
                                                                  ap.setFid(fid2);
                                                                  ap.setName(name2);
                                                                  ap.setAvailableQuantity(aq2);
                                                                  ap.setPrice(price2);
                                                                  ap.setSize(size2);
                                                                  f = ap;
                                                          }
                                                          else if(type == 3)
                                                          {
                                                                  System.out.println("Going Back....");
                                                          }
                                                          else
                                                          {
                                                                  System.out.println("Invalid Type");
                                                          }
                                                          if(f!= null)
```

```
{
                                                             try{
                                                             System.out.print("Enter Restaurant RID:
");
                                                             String rid1 = sc.next();
                                                             fc.getRestaurant(rid1).insertFoodItem(f);
                                                             }
                                                             catch(NullPointerException npe)
                                                             {npe.printStackTrace();
                                                             System.out.println("RID not found");
                                                             }
                                                     }
                                                      System.out.println("############");
                                                     break;
                                                      }
                                           catch (InputMismatchException ime15)
                           {
                                                             ime15.printStackTrace();
       System.out.println("InputMismatchException occured");
                                      }
                                              case 2:
                                              try{
                                                      System.out.println("############");
                                                      System.out.println("Remove an Existing Food
Item of a Restaurant");
```

```
System.out.print("Enter Restaurant RID: ");
                                                        String rid2 = sc.next();
                                                        System.out.print("Enter Food Item FID: ");
                                                        String fid2 = sc.next();
                                                        Restaurant rr = fc.getRestaurant(rid2);
                                                                FoodItem fi= rr.getFoodItem(fid2);
                                                               if (rr == null) {
                                                                        System.out.println("Food Item
FID Not Found!");
                                                                        break;
                                                               }
                                                                rr.removeFoodItem(fi);
                                                       }
                                                       catch (NullPointerException npe){
                                                                npe.printStackTrace();
                                                                System.out.println("NullPointerException
occured");
                                                       }
                 System.out.println("############");
                 break;
                                                case 3:
                                                   try{
                                                        System.out.println("#############");
                                                        System.out.println("Show All Food Items of a
Restaurant");
                                                        System.out.print("Enter Restaurant RID: ");
                                                        String rid3 = sc.next();
```

```
fc.getRestaurant(rid3).showAllFoodItems();
                                                       }
                                            catch (InputMismatchException ime16)
                            {
                                                              ime16.printStackTrace();
        System.out.println("InputMismatchException occured");
                                        }
                                                       System.out.println("############");
                                                      break;
                                               case 4:
                                                 try{
                                                       System.out.println("############");
                                                       System.out.println("Search a Food Item of a
Restaurant");
                                                       System.out.print("Enter Restaurant RID: ");
                                                       String rid4 = sc.next();
                                                       System.out.print("Enter Food Item fid: ");
                                                       String fid4 = sc.next();
                                                       FoodItem ff =
fc.getRestaurant(rid4).getFoodItem(fid4);
                                                      if(ff!= null)
                                                      {
                                                              ff.showInfo();
                                                      }
```

```
}
                               catch (InputMismatchException ime17)
                  {
                                                 ime17.printStackTrace();
System.out.println("InputMismatchException occured");
                            }
                                          System.out.println("############");
                                          break;
                                   case 5:
                                           System.out.println("#############");
                                           System.out.println("Going Back ....");
                                           System.out.println("#############");
                                          break;
                                   default:
                                           System.out.println("############");
                                           System.out.println("Invalid Option");
                                          System.out.println("############");
                                          break;
                            }
                            System.out.println("************);
                            break;
                            }
                             catch (InputMismatchException ime4)
              {
```

```
ime4.printStackTrace();
```

```
System.out.println("InputMismatchException occured");
                         }
                      case 4:
                        try{
                             System.out.println("************);
                             System.out.println("Food Item Add or Sell");
                             System.out.println("What do you want to do?\n");
                             System.out.println("-----");
                             System.out.println("1. Add Amount of Food");
                             System.out.println("2. Sell Amount of Food");
                             System.out.println("3. Show Add/Sell History");
                             System.out.println("4. Go Back");
                             System.out.println("-----\n");
                             System.out.print("Enter your option: ");
                             int input4 = sc.nextInt();
                             switch(input4)
                             {
                                     case 1:
                                             System.out.println("#############");
                                             System.out.println("Add Amount Of Food \n");
                                             System.out.print("Enter Restaurant RID: ");
                                             String rid1 = sc.next();
```

```
System.out.print("Enter Food Item fid: ");
                                                       String fid1 = sc.next();
                                                       System.out.print("Enter What Amount of Food
Will Add: ");
                                                       int amount1 = sc.nextInt();
                                                       if(amount1>0)
                                                       {
                                                               try{
        fc.getRestaurant(rid1).getFoodItem(fid1).addQuantity(amount1);
                                                               frwd.writeInFile("Add Quantity : "+
amount1+" add with this fid "+ fid1);
                                                       }
                                                       catch(NullPointerException npe)
                                                       {
                                                               npe.printStackTrace();
                                                               if(fc.getRestaurant(rid1)==null)
                                                               {System.out.println(" Rid not found");}
                                                       else
                                                       {System.out.println(" Fid not found");
                                               }
                                                       }
                                                       }
                                                       System.out.println("#############");
                                                       break;
                                               case 2:
                                                       System.out.println("#############");
```

```
System.out.println("Sell Food");
                                                          System.out.print("Enter Restaurant RID: ");
                                                          String rid2 = sc.next();
                                                          System.out.print("Enter Food Item FID: ");
                                                          String fid2 = sc.next();
                                                          System.out.print("Enter What Amount You Want
To Sell: ");
                                                          int amount2 = sc.nextInt();
                                                          try{
                                                          if(amount2>0 && amount2 <=
fc.getRestaurant(rid2).getFoodItem(fid2).getAvailableQuantity())
        fc.getRestaurant(rid2).getFoodItem(fid2).sellQuantity(amount2);
                                                                  frwd.writeInFile("Sell Quantity : "+
amount2+" sell from this fid "+ fid2);
                                                         }
                                                         }
                                                         catch(NullPointerException npe)
                                                         {
                                                                  npe.printStackTrace();
                                                                  if(fc.getRestaurant(rid2)==null)
                                                                  {System.out.println(" Rid not found");}
                                                          else
                                                          {System.out.println(" Fid not found");
                                                 }
                                                         }
```

```
System.out.println("############");
                                          break;
                                   case 3:
                                     try{
                                          System.out.println("#############");
                                          System.out.println("Show add sell History");
                                          frwd.readFromFile();
                                           }
                               catch (InputMismatchException ime18)
                 {
                                                 ime18.printStackTrace();
System.out.println("InputMismatchException occured");
                            }
                                          System.out.println("############");
                                          break;
                                   case 4:
                                          System.out.println("#############");
                                          System.out.println("Going Back..");
                                          System.out.println("############");
                                          break;
                                   default:
```

```
System.out.println("#############");
                                             System.out.println("Invalid Option");
                                             System.out.println("#############");
                                             break;
                              }
                              System.out.println("************);
                              break;
                              }
                              catch (InputMismatchException ime5)
               {
                                                    ime5.printStackTrace();
System.out.println("InputMismatchException occured");
                       }
                      case 5:
                         try{
                              System.out.println("************);
                              System.out.println("Exit");
                              choice = false;
                              System.out.println("************);
                              break;
                              }
                               catch (InputMismatchException ime6)
               {
                                                    ime6.printStackTrace();
System.out.println("InputMismatchException occured");
                         }
                      default:
```

```
System.out.println("************");
                                       System.out.println("Invalid Option");
                                       System.out.println("************");
                                       break;
                           }
                     }
               }
               catch (InputMismatchException ime1)
                     {
                                                              ime1.printStackTrace();
       System.out.println("InputMismatchException occured");
                                catch (Exception e)
                     {
                                                              e.printStackTrace();
                                                              System.out.println("Here Exception
occured");
                                }
}
}
```

Problems @ Javadoc Declaration Console

Start (1) [Java Application] C:\Program Files\Java\jdk-14.0.

Choose from the Following Options:

1. Employee Management
2. Restaurant Management
3. Restaurant Food Item Management
4. Food Item Quantity Add-Sell
5. Exit

You have choosed: