**Milestone Assessment -1**

**Solution:**

**//main java Class**

**import** java.util.ArrayList;

**import** java.util.Scanner;

**import** java.util.List;

**import** entity.CustomerDetals;

**import** exception.Exceptions;

**public** **class** CustomerMain {

Scanner *sc*= **new** Scanner(System.***in***);

**public** **static** **void** main(String[] args) {

**boolean** exitOfProgram=**true**;

System.***out***.println("Enter The number of customer Details you wish to Add");

**int** noOfCustomers= *sc*.nextInt();

//Creating a List of Customers

List<CustomerDetals> customers= **new** ArrayList<>(noOfCustomers);

**for** (**int** i = 1; i <= noOfCustomers; i++) {

System.***out***.println("Enter ID of Customer "+i);

**int** id= *sc*.nextInt();

System.***out***.println("Enter Name of Customer "+i);

String name= *sc*.next();

*sc*.nextLine();

System.***out***.println("Enter Purchase Amount of Customer "+i);

**int** amount=*sc*.nextInt();

CustomerDetals c= **new** CustomerDetals(id,name,amount);

customers.add(c);

}

**while**(exitOfProgram) {

System.***out***.println("Enter 1: for Displaying all customer records based on their purchaseAmount in descending order");

System.***out***.println("Enter 2: To Update a particular Customer’s purchasing amount");

System.***out***.println("Enter 3: To Exit");

**int** ch=*sc*.nextInt();

**switch**(ch) {

**case** 1:

**for** (CustomerDetals customer : customers) {

System.***out***.println(customer);

}

**break**;

**case** 2:

System.***out***.println("Enter customer id to be updated:");

**int** id1=*sc*.nextInt();

**int** flag=0;

System.***out***.println("Enter new purchase amount");

**int** amount1=*sc*.nextInt();

**for** (CustomerDetals customer : customers) {

**if**(customer.getId()==id1) {

customer.setPurchaseAmount(amount1);

System.***out***.println("Customer Updated");

System.***out***.println(customer);

flag=1;

}

}

**if**(flag==0)

**throw** **new** Exceptions("Customer Id not found");

**break**;

**case** 3:

exitOfProgram=**false**;

}

}

}

}

// Customer Details Class

**public** **class** CustomerDetals {

**private** **int** id;

**private** String name;

**private** **int** purchaseAmount;

**public** CustomerDetals(**int** id, String name, **int** purchaseAmount) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.purchaseAmount = purchaseAmount;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getPurchaseAmount() {

**return** purchaseAmount;

}

**public** **void** setPurchaseAmount(**int** purchaseAmount) {

**this**.purchaseAmount = purchaseAmount;

}

@Override

**public** String toString() {

**return** "Customer id = " + id + ", \t Cutomer Name = " + name + ", \tPurchase Amount = " + purchaseAmount + "";

}

}

//Exception class

**package** exception;

**public** **class** Exceptions **extends** RuntimeException {

**public** Exceptions() {

**super**();

}

**public** Exceptions(String message, Throwable cause, **boolean** enableSuppression, **boolean** writableStackTrace) {

**super**(message, cause, enableSuppression, writableStackTrace);

}

**public** Exceptions(String message, Throwable cause) {

**super**(message, cause);

}

**public** Exceptions(String message) {

**super**(message);

}

**public** Exceptions(Throwable cause) {

**super**(cause);

}

}

**// END OF PROGRAM**