CAP:680 JAVA PROGRAMMING LANGUAGE LABORATORY

ASSIGNMENT-3

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Q.1. A Canteen owner selling different food items to students and faculty members on daily basic. The mode of payment is either cash or Paytm. But there is no system available to make n weekly or monthly basis. The biggest challenge for the owner is to maintain the sales record.

```
Ans:
import java.util.ArrayList;
import java.util.Scanner;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
public class CanteenSalesRecord {
  private static ArrayList<Sale> sales = new ArrayList<Sale>();
  private static Scanner input = new Scanner(System.in);
  private static String filename = "sales.txt";
  public static void main(String[] args) {
    int choice = 0;
    while (choice != 4) {
      System.out.println("Choose an option:");
      System.out.println("1. Record a sale");
      System.out.println("2. Display all sales");
```

```
System.out.println("3. Save sales to file");
    System.out.println("4. Exit");
    choice = input.nextInt();
    input.nextLine(); // consume the newline character
                                            MACA
    switch (choice) {
      case 1:
       recordSale();
        break;
      case 2:
        displaySales();
        break;
      case 3:
        saveSalesToFile();
        break;
      case 4:
       System.out.println("Goodbye!");
       break;
      default:
        System.out.println("Invalid choice");
}
private static void recordSale() {
  System.out.println("Enter food item name:");
  String item = input.nextLine();
```

```
System.out.println("Enter amount paid (cash or Paytm):");
  String payment = input.nextLine();
  Sale sale = new Sale(item, payment);
  sales.add(sale);
                                              MACA
  System.out.println("Sale recorded!");
}
private static void displaySales() {
  for (Sale sale : sales) {
    System.out.println(sale);
private static void saveSalesToFile() {
  try {
    FileWriter writer = new FileWriter(filename);
    for (Sale sale: sales) {
      writer.write(sale.toString() + "\n");
    writer.close();
    System.out.println("Sales saved to file " + filename);
  } catch (IOException e) {
    System.out.println("Error saving sales to file " + filename);
    e.printStackTrace();
```

```
private static class Sale {
  private String item;
  private String payment;
  public Sale(String item, String payment) {
                                           this.item = item;
    this.payment = payment;
  }
  public String toString() {
    return item + " - " + payment;
PROBLEMS 12
           OUTPUT
                  DEBUG CONSOLE
                              TERMINAL
```

```
2. Display all sales
3. Save sales to file
4. Exit
1
Enter food item name:
Enter amount paid (cash or Paytm):
150
Sale recorded!
Choose an option:
1. Record a sale

    Display all sales
    Save sales to file

4. Exit
mango - 150
Choose an option:
1. Record a sale
2. Display all sales
3. Save sales to file
4. Exit
Goodbye!
         CODE\JAVA PROGRAM\ASSIGNMENT>
```