

```

1  /*AIM:Write a program in java that accepts a shopping list of items and perform the following
   operations:
2  package pkg3;
3  import java.util.Scanner;
4  public class ShoppingList {
5      public static void main(String[] args) {
6          System.out.println("~A PROJECT BY KASHISH GUPTA");
7          Scanner scanner = new Scanner(System.in);
8          Vector<String> shoppingList = new Vector<>();
9          int choice;
10         do {
11             System.out.println("\nMenu:");
12             System.out.println("1. Add item at specified location");
13             System.out.println("2. Delete item");
14             System.out.println("3. Print shopping list");
15             System.out.println("4. Exit");
16             System.out.print("Enter your choice: ");
17             choice = scanner.nextInt();
18             scanner.nextLine(); // Consume newline
19
20             switch (choice) {
21                 case 1:
22                     System.out.print("Enter item to add: ");
23                     String itemToAdd = scanner.nextLine();
24                     System.out.print("Enter position to add item (0 to " + shoppingList.size()
25                     + "): ");
26                     int positionToAdd = scanner.nextInt();
27                     if (positionToAdd < 0 || positionToAdd > shoppingList.size()) {
28                         System.out.println("Invalid position.");
29                     } else {
30                         shoppingList.add(positionToAdd, itemToAdd);
31                         System.out.println(itemToAdd + " has been added at position " +
32                         positionToAdd + ".");
33                     }
34                     break;
35                 case 2:
36                     System.out.print("Enter position of item to delete (0 to " +
37                     (shoppingList.size() - 1) + "): ");
38                     int positionToDelete = scanner.nextInt();
39                     if (positionToDelete < 0 || positionToDelete >= shoppingList.size()) {
40                         System.out.println("Invalid position.");
41                     } else {
42                         String removedItem = shoppingList.remove(positionToDelete);
43                         System.out.println(removedItem + " has been removed from the list.");
44                     }
45                     break;
46                 case 3:
47                     System.out.println("Current shopping list:");
48                     for (String item : shoppingList) {
49                         System.out.println(item);
50                     }
51                     break;
52                 case 4:
53                     System.out.println("Exiting...");
54                     break;
55                 default:
56                     System.out.println("Invalid choice. Please try again.");
57             }
58         }

```

```
59         }  
60     } while (choice != 4);  
61 }  
62 }  
63
```