**Bahria University, Lahore Campus**

Department of Computer Science

Semester-01

**(Spring 2025)**

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| Course: | Computer Programming | Date: 25-05-2025 |
| Course Code: | CSC 113 | Max Marks: 20 |
| Instructor Name: | Mehreen Tariq |  |

**Name:** Noman Ahmad **Enroll No:** 03-134251-045  **Class**: BSCS-01

**Group members:**

* Eman Rafiq
* Sara Amjad Abbasi
* Noman Ahmad

**Project title:**

Clothing Store Order Management System

**Code:**

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| #include <iostream>  #include <string>  #include <cstdlib>  using namespace std;  int getValidOption(int min, int max) {  int choice;  while (true) {  cout << ">> Enter choice (" << min << "-" << max << "): ";  cin >> choice;  if (cin.fail() || choice < min || choice > max) {  cin.clear();  cin.ignore(1000, '\n');  cout << "Please enter valid input!.\n";  } else {  cin.ignore();  return choice;  }  }  }  void printHeader(string title){  cout << "\n============================================\n";  cout << " " << title << "\n";  cout << "============================================\n";  }  int main() {  const int MAX\_ITEMS = 100;  string outlet, collection[MAX\_ITEMS], brand[MAX\_ITEMS], season[MAX\_ITEMS], style[MAX\_ITEMS];  string type[MAX\_ITEMS], subType[MAX\_ITEMS], size[MAX\_ITEMS], color[MAX\_ITEMS];  float price[MAX\_ITEMS];  int totalItems = 0;  float totalBill = 0;  int option;  string outlets[] = {"Lahore", "Islamabad", "Karachi", "Faisalabad"};  string brands[] = {"J.", "Sapphire", "Nishat", "Breeze", "Gul Ahmad"};  string colors[] = {"Red", "Blue", "Green", "Yellow", "Black", "White", "Brown", "Purple", "Pink", "Orange"};  string sizes[] = {"S", "M", "L", "XL"};  const float PANT\_PRICE = 2500;  const float SHIRT\_PRICE = 2000;  const float MEN\_SUIT\_PRICE = 4000;  const float WOMEN\_2PC\_PRICE = 3000;  const float WOMEN\_3PC\_PRICE = 4500;  const float SHAWL\_PRICE = 2000;  const float HOODIE\_PRICE = 4000;  const float JACKET\_PRICE = 6000;  const float SWEATER\_PRICE = 3000;  printHeader("WELCOME TO TRENDY THREADS OUTLET");  cout << ">>> Choose the nearest outlet:\n";  for (int i = 0; i < 4; i++) {  cout << " [" << i + 1 << "] " << outlets[i] << "\n";  }  option = getValidOption(1, 4);  outlet = outlets[option - 1];  system("CLS");  while (true) {  printHeader("COLLECTION SELECTION");  cout << " [1] Men\n [2] Women\n";  option = getValidOption(1, 2);  collection[totalItems] = (option == 1) ? "Men" : "Women";  system("CLS");  printHeader("BRAND SELECTION");  for (int i = 0; i < 5; i++) {  cout << " [" << i + 1 << "] " << brands[i] << "\n";  }  option = getValidOption(1, 5);  brand[totalItems] = brands[option - 1];  system("CLS");  printHeader("SEASON SELECTION");  cout << " [1] Summer\n [2] Winter\n";  option = getValidOption(1, 2);  season[totalItems] = (option == 1) ? "Summer" : "Winter";  system("CLS");  printHeader("STYLE SELECTION");  cout << " [1] Eastern\n [2] Western\n";  option = getValidOption(1, 2);  style[totalItems] = (option == 1) ? "Eastern" : "Western";  system("CLS");  if (style[totalItems] == "Eastern") {  printHeader("EASTERN SUIT TYPE");  if (collection[totalItems] == "Men") {  if (season[totalItems] == "Summer") {  cout << " [1] Cotton (Rs. 4000)\n [2] Wash n Wear (Rs. 4000)\n [3] Texture Wash n Wear (Rs. 4000)\n";  } else {  cout << " [1] Khaddar (Rs. 4000)\n [2] Marina (Rs. 4000)\n [3] Cotton Wool Blend (Rs. 4000)\n";  }  getValidOption(1, 3);  type[totalItems] = "Suit";  price[totalItems] = MEN\_SUIT\_PRICE;  } else {  if (season[totalItems] == "Summer") {  cout << " [1] Linen\n [2] Cotton\n [3] Cambric Cotton\n [4] Lawn\n [5] Arabic Lawn\n";  getValidOption(1, 5);  } else {  cout << " [1] Velvet\n [2] Linen\n [3] Marina\n [4] Rashmi\n";  getValidOption(1, 4);  }  cout << "\n>>> Choose Suit Piece:\n";  cout << " [1] 2PC (Rs. 3000)\n [2] 3PC (Rs. 4500)\n";  option = getValidOption(1, 2);  type[totalItems] = (option == 1) ? "2PC Suit" : "3PC Suit";  price[totalItems] = (option == 1) ? WOMEN\_2PC\_PRICE : WOMEN\_3PC\_PRICE;  }  } else {  printHeader("WESTERN CATEGORY");  cout << " [1] Pant\n [2] Shirt\n [3] Outerwear\n";  option = getValidOption(1, 3);  system("CLS");  if (option == 1) {  printHeader("PANT TYPES");  cout << " [1] Cotton Pant (Rs. 2500)\n [2] Jeans Pant (Rs. 2500)\n [3] Baggy Pant (Rs. 2500)\n [4] Skinny Pant (Rs. 2500)\n";  option = getValidOption(1, 4);  type[totalItems] = "Pant";  string pantTypes[] = {"Cotton Pant", "Jeans Pant", "Baggy Pant", "Skinny Pant"};  subType[totalItems] = pantTypes[option - 1];  price[totalItems] = PANT\_PRICE;  } else if (option == 2) {  printHeader("SHIRT TYPES");  cout << " [1] T-Shirt (Rs. 2000)\n [2] Polo Shirt (Rs. 2000)\n";  option = getValidOption(1, 2);  type[totalItems] = "Shirt";  subType[totalItems] = (option == 1) ? "T-Shirt" : "Polo Shirt";  price[totalItems] = SHIRT\_PRICE;  } else {  if (season[totalItems] == "Summer") {  cout << "\n!! No Outerwear products available in Summer !!\n";  continue;  }  printHeader("OUTERWEAR OPTIONS");  cout << " [1] Hoodie (Rs. 4000)\n [2] Sweater (Rs. 3000)\n [3] Jacket (Rs. 6000)\n [4] Shawl (Rs. 2000)\n";  option = getValidOption(1, 4);  string outerwear[] = {"Hoodie", "Sweater", "Jacket", "Shawl"};  type[totalItems] = outerwear[option - 1];  float prices[] = {HOODIE\_PRICE, SWEATER\_PRICE, JACKET\_PRICE, SHAWL\_PRICE};  price[totalItems] = prices[option - 1];  }  }  system("CLS");  printHeader("SIZE SELECTION");  if (type[totalItems] == "Shawl") {  cout << " [1] Large (Only Size Available)\n";  size[totalItems] = "Large";  getValidOption(1, 1);  } else {  for (int i = 0; i < 4; i++) {  cout << " [" << i + 1 << "] " << sizes[i] << "\n";  }  option = getValidOption(1, 4);  size[totalItems] = sizes[option - 1];  }  system("CLS");  printHeader("COLOR SELECTION");  for (int i = 0; i < 10; i++) {  cout << " [" << i + 1 << "] " << colors[i] << "\n";  }  option = getValidOption(1, 10);  color[totalItems] = colors[option - 1];  system("CLS");  totalBill += price[totalItems];  totalItems++;  cout << "Add another item?\n [1] Yes\n [2] No\n";  option = getValidOption(1, 2);  system("CLS");  if (option == 2) break;  }  printHeader("ORDER SUMMARY");  for (int i = 0; i < totalItems; i++) {  cout << "Item #" << i + 1 << ": " << collection[i] << " | " << style[i] << " | ";  cout << (subType[i] != "" ? subType[i] : type[i]) << " | Size: " << size[i]  << " | Color: " << color[i] << " | Rs. " << price[i] << endl;  }  cout << "\n>>> Total Bill: Rs. " << totalBill << "\n";  string name, address, contact, email;  cout << "\nEnter your name: ";  getline(cin, name);  cout << "Enter delivery address: ";  getline(cin, address);  cout << "Enter contact number: ";  getline(cin, contact);  cout << "Enter email: ";  getline(cin, email);  cout << "\nConfirm Order?\n [1] Confirm\n [2] Cancel\n";  option = getValidOption(1, 2);  system("CLS");  printHeader("ORDER STATUS");  if (option == 1) {  cout << " Order Confirmed!\n";  cout << "Thanks, " << name << ". Your items will be delivered to: " << address <<"in 3-5 working days."<< "\n";  cout << ".Thank you for shopping.We appreciate your trust.\n Stay stylish with Trendy Threads!\n";  } else {  cout << " Order Cancelled.\nHope to serve you next time!\n";  }  cout << "\n============================================\n";  return 0;  } |

**Output:**

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