|  | **Nneke Rasul-Whited**  **Professor Vanessa Coote**  **Professor Jinwei Liu**  **Fundamentals of Programming**  **COP 3014CE**  **February 28, 2023** |  |  |
| --- | --- | --- | --- |
|  | | | | |
| Project Summary | | | | |
|  | | | | |

| Report Date | Project Name | Prepared By |
| --- | --- | --- |
| February 28, 2023 | Shopping Cart Part 1 - “N” Incorporated | Nneke Rasul-Whited |

| Customer Account |
| --- |
|  |

**Jane Smith**

Username: jsmith

Password: blue123

Account #: 123456789

Member Level: Gold

Store Credit: 3000.00

Address: 100 W New Haven Ave,

Melbourne, FL, 32901

| Product information |
| --- |
|  |

| SKU | name | Items in unit | price/unit | Quantity on hand |
| --- | --- | --- | --- | --- |
| **HF-342** | **½ in Bolt** | **50** | **20.00** | **200** |
| **LK-322** | **¼ in Nail** | **25** | **5.75** | **76** |
| **KF-231** | **Hammer** | **1** | **15.23** | **100** |

| Budget Overview |
| --- |
|  |

| Unit information/data | spent | % of total | on track? | notes |
| --- | --- | --- | --- | --- |
| **Total Amount of credits is 1150** | **$1150** | **40-41%** | **Yes** | **Customer still has 1850 available store credit** |
| **40 units of HF-342** | **$800** | **26-27%** | **Yes** | **2000 units total (50/HF-342)** |
| **Miscellaneous/Additional Parts** | **$350** | **11-12%** | **Yes** | **Accessory/Extra items** |
| **Taxes** | **$69** | **6%** | **Yes** | **n/a** |

| Analysis of specification |
| --- |
|  |

| inputs | outputs | processes |
| --- | --- | --- |
| **Generate SKU for customer** | **SKU** | **if else** |
| **Generate item for customer** | **item/units** | **adding items/units** |
| **Generate item with item name for customer** | **item with name** | **if else** |

| Test cases |
| --- |
| Acceptable Cases:   * HF-342, HF-3411, HF-3 * ½ in Bolt, ½ in BOLT, ½ in bolt   Unacceptable Values:   * H-342, HF-324, HF-423 * ½ Bolt, ½ BOLT, ½ bolt   Edge Cases   1. ½ blt 2. 1 in Bolt 3. HF342 4. HF3411 5. ½ in blt |

**Pseudocode:**

**BEGIN**

**NUMBER twenty**

**INPUT "Generate SKU for customer"**

**OUTPUT SKU**

**IF SKU>=twenty units THEN**

**OUTPUT "You can use store credit"**

**ELSE**

**OUTPUT "You can't use store credit"**

**ENDIF**

**END**

| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11** | **BEGIN**  **NUMBER s1, s2, s3, sum**  **OUTPUT("800:")**  **INPUT s1**  **OUTPUT("350:")**  **INPUT s2**  **OUTPUT(“69:”)**  **INPUT s3**  **OUTPUT**  **sum=s1+s2+s3**  **OUTPUT sum**  **END** |
| --- | --- |

Reference:[**Pseudocode Examples – Programming, Pseudocode Example, C# Programming Example (csharp-console-examples.com)**](https://www.csharp-console-examples.com/general/pseudocode-examples/#:~:text=Pseudocode%20Example%2010%3A%20Find%20the%20biggest%20of%20three,higher%22%20ELSE%20OUTPUT%20num3%2B%20%22is%20higher%22%20ENDIF%20END)



**Receipt**

**Received from:**

**Jane Smith**

**100 W New Haven Ave,**

**Melbourne, FL, 32901**

**$800 -------------------------------------------------------------------- 40 x HF-342**

**$350 -------------------------------------------------------------------- Misc./Additional Parts**

**$69 -------------------------------------------------------------------- Taxes**

**$1219 --------------------------------------------------------- Total**

**No. 14722**

**Date: February 28, 2023**

**Payment Method: Store Credit**

**Credit Amount Used: 1150**

**Store Credit Y/N: Y**

**Available Credit Balance: 1850**

**For: SKU HF-342 – Misc. / Additional Parts**

**Received By: “N”**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Code:**

**int unit;**

**cout << "Generate SKU for customer: "; // Type a letter and press enter**

**cin >> unit; // Customer name is Jane Smith; Get user input from the website options**

**cout << "Your item is: " << unit; // Display the input value**

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**Flow Chart**

**Business Statement:**

**Here at “N” Incorporated, our goal is to provide adequate, user-friendly access to all of our available products and units. This program will allow customers to choose and purchase products, as well as identify unit specifications entirely with step-by-step assistance located in the table of contents. Though we offer full assistance within the Table of Contents, a customer can contact our company with questions or concerns at** [**nincorporatedcc@nm.gr**](mailto:nincorporatedcc@nm.gr)