**PART 1**

**PSEUDOCODE**

Initialize login as Boolean

Initialize credit card number as integer

Initialize price as double

Initialize the username as varchar

Initialize the password as varchar

Assign the products item to the price variable

If login is TRUE

Input the credit card number

If the credit card number provided is valid

Bill the price of the item on the credit card

Print success of the purchase

Else

Notify that the credit card provided is invalid

Input a valid credit card number

Else if login is FALSE

Input username

Input password

If the username or password is FALSE

Require correct login details

Else if correct login details provided

Allow proceed to checkout

**PART 2**

**DATA DICTIONARY**

|  |  |  |  |
| --- | --- | --- | --- |
| Variable Name | Data Type | Module | Scope |
| Credit\_card | Integer | GetInput  Payment | Private |
| Login | Boolean | RegisterSession  Session | Public |
| Price | Double | Calculate  Payment | Public |
| Username | Varchar | GetInput  Login | Protected |
| Password | Varchar | GetInput  Login | Protected |