# **Award magical bonus pseudocode:**

**Start**

DISPLAY ” How many years have you been a customer?”

SET customerPeriod = get value

DISPLAY ” How many rentals have you rented this month?”

SET numberOfRentals = get value

IF customerPeriod < 5 AND numberOfRentals < 25 THEN

BEGIN IF

DISPLAY ” You do not qualify for the magical bonus”

END IF

ELSE IF 5 <= customerPeriod < 10 AND 25 <= numberOfRentals THEN

BEGIN ELSEIF

DISPLAY ” You qualify for 1 bronze tier book!”

END ELSEIF

ELSE IF 10 <= customerPeriod < 15 AND 50 <= numberOfRentals THEN

BEGIN ELSEIF

DISPLAY ” You qualify for 3 bronze and 1 silver tier books!”

END ELSEIF

IF 15 <= customerPeriod AND 75 <= numberOfRentals THEN

DISPLAY” You qualify for 5 bronze, 2 silver and 1 gold tier books!”

**End**

# **Award magical bonus IPO chart:**

|  |  |  |
| --- | --- | --- |
| **Input** | **Processing** | **Output** |
| * Number of years as a customer * Number of movies rented for the month | 1. Prompt for number of years as a customer 2. Get Value 3. Prompt for number of rentals for the month 4. Get Value | * You have qualIFied for 1 bronze tier book! * You qualIFy for 3 bronze and 1 silver tier books! * You qualIFy for 5 bronze, 2 silver and 1 gold tier books! |

# **Identify Eligible Coupons Pseudo**

**Start**

PROMPT “Enter the Customer’s number of rentals”

SET numRentals = get value

SET reward = “”

IF numRentals > 10 AND numRentals <= 24 THEN

BEGIN IF

SET reward = “1 Reward rental”

END IF

ELSE IF numRentals > 24 AND numRentals <= 49 THEN

BEGIN ELSEIF

SET reward = “2 Reward rentals”

END ELSEIF

ELSE IF numRentals > 49 AND numRentals <= 74 THEN

BEGIN ELSEIF

SET reward = “4 Reward rentals”

END ELSEIF

ELSE

BEGIN ELSE

SET reward = “8 Reward rentals”

END ELSE

RETURN reward

**End**

# **Identify Eligible Coupons IPO table**

|  |  |  |
| --- | --- | --- |
| **Input** | **Processing** | **Output** |
| * Number of rentals from a customer. | 1. Prompt for number of rentals a customer made. 2. Get Value. 3. Determine which rental coupon the customer appropriately falls under. | * 1 Reward rental * 2 Reward Rentals * 4 Reward Rentals * 8 Reward Rentals |

# **THE Pseudo code:**

**Start**

SET spellTomes = 40

SET enchantedScrolls = 25

SET magicalNovels = 25

SET LIST customerNames

SET LIST magicBooks

DISPLAY “What would you like to do today? Type the number to the corresponding option.”

SET option = get value

SWITCH option

BEGIN SWITCH

CASE 1

**End**