PRG161 2025

Research Milestone1

# Discount Calculation:

**IPO:**

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESS | OUTPUT |
| 1. Customer Name 2. Number of years registered 3. Discount rates 4. Total Rentals made | 1. Prompt for customer name  2.Get customer name  3.Prompt for the number of years registered  4.Get the number of years registered  5.Prompt for total amount of rentals made  6. Get total amount of rentals made  7.) discount = totalRentals \* discount rate  8.)finalAmount = totalRentals – discount  9. Display discount and finalAmount | 1. Discount 2. Final amount |

**Pseudocode:**

1. Start

2. Prompt for customer record selection

3. IF Years Registered >0 and Years Registered <=4

4. discountRate = 0.5

5. ELSE IF Years Registered >=5 and Years Registered <=9

6. discountRate = 0.10

7. ELSE IF Years Registered >=10 and Years Registered <=14

8. discountRate = 0.20

9. ELSE IF Years Registered >=15

10. discountRate = 0.35

11. ELSE

12. discount = 0.00

13. END IF

14. discount = totalRentals \* discountRate

15. finalAmount = totalRentals – discount

16. Display discount and finalAmount

17. END