| **Task 1**  Here is a catalogue with 3 products.  Product Name : Price  Product A : $20  Product B : $40  Product C : $50  **Discount Rules:**   * "flat\_10\_discount": If cart total exceeds $200, apply a flat $10 discount on the cart total. * "bulk\_5\_discount": If the quantity of any single product exceeds 10 units, apply a 5% discount on that item's total price. * "bulk\_10\_discount": If total quantity exceeds 20 units, apply a 10% discount on the cart total. * "tiered\_50\_discount": If total quantity exceeds 30 units & any single product quantity greater than 15, then apply a 50% discount on products which are above 15 quantity. The first 15 quantities have the original price and units above 15 will get a 50% discount.   Note: Only one rule can be applied per purchase. If multiple discounts are applicable, the program calculates the discount amount for each rule and applies the most beneficial one for customer.  **Fees:**   * Gift wrap fee: $1 per unit. * Shipping fee: 10 units can be packed in one package, and the shipping fee for each package is $5.   **Program**  The program will ask the quantity of each product. The program will also ask if that product is wrapped as a gift?  Then the program will show / output below details.   * The product name, quantity & total amount of that product. * Subtotal * The discount name applied & the discount amount. * The shipping fee & the gift wrap fee. * Total   Please solve the problem using 2 programming languages you know well (preferably Python, JavaScript, or PHP). You don't need to create a web application or don’t need to use any database for this.  **Do not use any frameworks or libraries. Push the code in any public code repo (GitHub, GitLab etc) & share the repo link with us. In the code repo, add the steps / document about how to use the program. The program should accept the given parameters and provide the solution as output. AI generated code will be disqualified.**  **Task 2**  **Do share your thoughts on the following**   * Why do you like to join as a Software developer? * List top 3 softwares / tools that inspire you. Why do these tools inspire you? * List top 3 organisations you like to join in your career & why you like these organisations. * How you position yourself in this industry after 2 years. * List 3 projects / products you have built or have planned to build in the upcoming year, also explain your role in the same. |
| --- |