

Description:

Our program is designed for tracking different attributes for a printing service. The program allows users to place orders with different order types. In the first order type, the user chooses the same quantity, size, finish, and processing time for all the prints. The program will calculate the total cost based on the user's inputs and can apply a promotion code if necessary, handled by `orderType == 1`. In the second order type, the user can choose a different size, finish, and processing time for each individual print separately. Then, the program will calculate the total cost for the entire order, handled by `orderType == 2`. The main components of the program include the `printServiceMenu` method, which acts as the main menu, allowing the user to place an order or exit the program. The `placeOrder` method takes the input for the order type and calls the `handlePrints` method. The `handlePrints` method manages the details of the order based on the order type, taking the number of prints and their other characteristics as inputs. The `calculateOrderCost` method performs the calculations to determine the total cost of the order based on the order's characteristics. The `calculateBaseCost` method calculates the base cost based on the size and quantity of the prints. The `applyFinishCost` method applies additional costs based on the different finish options chosen by the user, namely "Matte" and "Glossy". The `applyProcessingTimeCost` method adds additional costs based on the user's input for processing time. Finally, the `applyPromotionCodeDiscount` method applies the promotion code to the order if the user's quantity of prints is equal to 100.