

C – Programming - Terminal App

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I developed a c-program which shows menu(LIST of food items) and user can select food to eat. Food has calorie and price. When user selects for a particular food item it showers valid coupons on that order, the user can apply a coupon code on it to avail discount on the price depending on the discount percentage. I used to files, menu.txt and discount.txt, the food items and corresponding coupon codes are read from the file.

Part 1

I opened files in main and sent the files pointers to functions and *closed the file*.

First value is calorie which is of type Integer, second value is price of type Double.

Menu.txt	Function Prototype
100 120 150 150 250 200	void read_menu(FILE *fPtr_menu, int *c1, double *p1, int *c2, double *p2, int *c3, double *p3);

Discount file includes discount percentages. If a coupon code is selected then the corresponding discount percentage is choosen. Note that discount type is asked to the user in main functions. If user selects particular discount type then it will assign the discount to the original price. For examples of coupon code SNACKS30, if you select that it will assign 30% discount to the original price before.

Discount .txt	Function Prototype
50 30 10	void read_discounts(FILE *fPtr_discount, int *d1, int *d2, int *d3);

Part 2

I printed the output screen. I asks for the user to choose a food item. It reads choice from the user and returns user's choice to the main function. User needs to enter on of options 1,2,3 or 0(to exit menu).

Output Screen	Function Prototype
Select Food item : 1 - Paneer (100 calories) = 120.00rs 2 - Chicken 65 (150 calories) = 150.00rs 3 - Chicken Biryani (250 calories) = 200.00rs 0 - To exit menu	int read_choice(int c1, int c2, int c3, double p1, double p2, double p3);

Part 3

In this function discounted price of the food is calculated according to the original price and discount percentage and returned to the main function.

Function Prototype
int price_off(double price , int discount)

Part 4

This part shows if coupon is applied successfully or not, if the coupon code is invalid it shows Invalid.If coupon is applied then it shows the discounted price and asks for conformation if the user want to proceed with the order or cancel the order.

Discounted price, continue Order	Function Prototype
price = price * (100-discount)/100	void discount_price(int d1,int d2,int d3,double price); void selection();

Part 5

The user can order another food item in this part. If the user wants to order another food item then control returns to the main function.

Function Prototype
void another_order(int grand);

Part 6

It displays the order summary or receipt of each order which is placed. The order summary includes the status of the order, ordered food item and bill. The total is calculated of each food order which is placed and Grand total is displayed which is to be paid

Order summary, Grand Total	Function Prototype
Order summary You ordered XXX Total bill:-YYY Grand Total : ZZZ	void summary(int menu,double status); void grand_t(double grand);

Output Screen (1/2)	Output Screen(2/2)
<p>Select Food item :</p> <p>1 - Paneer (100 calories) = 120.00rs</p> <p>2 - Chicken 65 (150 calories) = 150.00rs</p> <p>3 - Chicken Biryani (250 calories) = 200.00rs</p> <p>0 - To exit menu</p> <p>3</p> <p>You selected</p> <p>Chicken Biryani - Price :- 200.00rs</p> <p>You can apply coupons for discount</p> <p>WELCOME50 - for 50% off on this order</p> <p>SNACKS30 - for 30% off on this order</p> <p>PD10 - for 10% on this order</p> <p>Enter your discount type (1-2-3): 2</p> <p>Coupon code is applied successfully</p> <p>your price after discount is 140.00rs</p> <p>Do you want to continue to place the order? (Y N) y</p> <p>your order is placed successfully</p> <p>Do you want to place another order? (Y N) y</p> <p>Select Food item :</p> <p>1 - Paneer (100 calories) = 120.00rs</p> <p>2 - Chicken 65 (150 calories) = 150.00rs</p> <p>3 - Chicken Biryani (250 calories) = 200.00rs</p> <p>0 - To exit menu</p> <p>2</p> <p>You selected</p> <p>Chicken 65 - Price :- 150.00rs</p> <p>You can apply coupons for discount</p> <p>WELCOME50 - for 50% off on this order</p> <p>SNACKS30 - for 30% off on this order</p> <p>PD10 - for 10% on this order</p> <p>Enter your discount type (1-2-3): 3</p> <p>Coupon code is applied successfully</p> <p>your price after discount is 135.00rs</p> <p>Do you want to continue to place the order? (Y N) y</p>	<p>Select Food item :</p> <p>1 - Paneer (100 calories) = 120.00rs</p> <p>2 - Chicken 65 (150 calories) = 150.00rs</p> <p>3 - Chicken Biryani (250 calories) = 200.00rs</p> <p>0 - To exit menu</p> <p>1</p> <p>You selected</p> <p>Paneer - Price :- 120.00rs</p> <p>You can apply coupons for discount</p> <p>WELCOME50 - for 50% off on this order</p> <p>SNACKS30 - for 30% off on this order</p> <p>PD10 - for 10% on this order</p> <p>Enter your discount type (1-2-3): 1</p> <p>Coupon code is applied successfully</p> <p>your price after discount is 60.00rs</p> <p>Do you want to continue to place the order? (Y N) y</p> <p>your order is placed successfully</p> <p>Do you want to place another order? (Y N) y</p> <p>Select Food item :</p> <p>1 - Paneer (100 calories) = 120.00rs</p> <p>2 - Chicken 65 (150 calories) = 150.00rs</p> <p>3 - Chicken Biryani (250 calories) = 200.00rs</p> <p>0 - To exit menu</p> <p>3</p> <p>You selected</p> <p>Chicken Biryani - Price :- 200.00rs</p> <p>You can apply coupons for discount</p> <p>WELCOME50 - for 50% off on this order</p> <p>SNACKS30 - for 30% off on this order</p> <p>PD10 - for 10% on this order</p> <p>Enter your discount type (1-2-3): 3</p> <p>Coupon code is applied successfully</p> <p>your price after discount is 180.00rs</p> <p>Do you want to continue to place the order? (Y N) y</p>

<p>your order is placed successfully</p> <p>Do you want to place another order? (Y N) n</p> <p>Order summary You ordered Chicken 65 Total bill:-135.00rs</p> <p>Order summary You ordered Chicken Biryani Total bill:-140.00rs</p> <p>Grand total :- 275.00rs</p>	<p>your order is placed successfully</p> <p>Do you want to place another order? (Y N) n</p> <p>Order summary You ordered Chicken Biryani Total bill:-180.00rs</p> <p>Order summary You ordered paneer Total bill:-60.00rs</p> <p>Grand total :- 240.00rs</p>
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