

Lab Manual 5 Exercise

1. You must have seen the question before deleting anything like “Are you sure to delete [Y/y] / [N/n] ? Create a program that asks for this question if user enters Y or y it prints “Deleted successfully” if the user enters N or n it prints “Delete canceled” otherwise it prints choose the right option using switch statement.
2. Create a calculator asking for operator (+ or – or * or /) and 2 operands and perform calculation according to the user input using switch statement.
3. Write a C program to input a character from the user and check whether the given character is a small alphabet, capital alphabet, digit or special character, using if else.
4. Write a C program to receive an 8-bit number into a variable and then check if its 4th and 7th bits are on. If these bits are found to be on, then put them off.

5. QUESTION#5

Write a program to control a coffee machine. Allow the user to input the type of coffee as B for Black and W for White. Ask the user if the cup size is double and if the coffee is manual. The following table details the time chart for the machine for each coffee type. Display a statement for each step. If the coffee size is double, increase the baking time by 50 percent. Use functions to display instructions to the user and to compute the coffee time.

Operation	White Coffee	Black Coffee
Put Water	15 mins	20 mins
Sugar	15 mins	20 mins
Mix Well	20 mins	25 mins
Add Coffee	2 mins	15 mins
Add Milk	4 mins	-
Mix Well	20mins	25 mins

Note: Use switch structure to solve this problem.

6. QUESTION#6

The National Earthquake Information Center has asked you to write a program implementing the following decision table to characterize an earthquake based on its Richter scale number.

Ritcher Scale Number(n)	Characterization
N<5.0	Little or no Damage
5.0<=n<5.5	Some damage
5.5<=n<6.5	Serious damage: walls may crack or fall
6.5<=n<7.5	Disaster: House and Buildings may collapse
higher	Catastrophe: most buildings destroyed

Could you handle this problem with a switch statement? If so, use a switch statement; if not, explain why.

QUESTION#7

Using IF and Switch statement, write a program that displays the following menu for the food items available to take order from the customer:

- B= Burger (Rs. 200)
- F= French Fries (Rs. 50)
- P= Pizza (Rs. 500)
- S= Sandwiches (Rs. 150)

The costumer can order any combination of available food. The program first ask to enter the no of types of snacks i.e. 2, 3 or 4 then it ask to enter the choice i.e. B for Burger and then for quantity. The program should finally display the total charges for the order.

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ABC Restaurant Online Order Placement
WELCOME!

Please select from the following Menu
B= Burger
F= French Fries
P= Pizza
S= Sandwiches
How many types of snacks you need to order: 2
Enter first Snack you want to order: B
Please provide quantity: 2
Enter second Snack you want to order: P
Please provide quantity: 3
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You have ordered!
2 Burger (s) value 400 PKR
3 pizza (s) value 1500 PKR
Total: 1900 PKR
Thank you for your order... have a nice day.
```