**SWITCH CASE EG:**

#include <stdio.h>int main() {    float num1, num2, result;    int choice;    // Taking input from user    printf("Enter two numbers: ");    scanf("%f %f", &num1, &num2);    // Menu for the user to choose an operation    printf("Choose an operation to perform:\n");    printf("1. Addition\n");    printf("2. Subtraction\n");    printf("3. Multiplication\n");    printf("4. Division\n");    printf("Enter your choice (1-4): ");    scanf("%d", &choice);    // Switch case for performing the selected operation    switch (choice) {        case 1:            result = num1 + num2;            printf("Result of Addition: %.2f\n", result);            break;        case 2:            result = num1 - num2;            printf("Result of Subtraction: %.2f\n", result);            break;        case 3:            result = num1 \* num2;            printf("Result of Multiplication: %.2f\n", result);            break;        case 4:            if (num2 != 0) {                result = num1 / num2;                printf("Result of Division: %.2f\n", result);            } else {                printf("Error! Division by zero is not allowed.\n");            }            break;        default:            printf("Invalid choice! Please enter a valid option (1-4).\n");    }    return 0;}2) Write a C program to read any day number in integer and display the day name in word format.Test Data :7Expected Output :Sunday#include <stdio.h>  // Include the standard input/output header file.void main(){   int dayno;  // Declare a variable to store the day number.   printf("Input Day No : ");  // Prompt the user to input the day number.   scanf("%d",&dayno);  // Read and store the day number.   switch(dayno)  // Start a switch statement based on the day number.   { case 1:        printf("Monday \n");        break; case 2:        printf("Tuesday \n");  // Print the corresponding day for day number 2.        break; case 3:        printf("Wednesday \n");  // Print the corresponding day for day number 3.        break; case 4:        printf("Thursday \n");  // Print the corresponding day for day number 4.        break; case 5:        printf("Friday \n");  // Print the corresponding day for day number 5.        break; case 6:        printf("Saturday \n");  // Print the corresponding day for day number 6.        break; case 7:        printf("Sunday  \n");  // Print the corresponding day for day number 7.        break; default:        printf("Invalid day number. \nPlease try again ....\n");  // Print a message for invalid day number.        break;      }}3) Write a C program for reading any Month Number and displaying the Month name as a word.Test Data :8Expected Output :August 3) #include <stdio.h>int main() {    int day, week;    // Input a random day number between 1 and 365    printf("Enter a day number (1-365): ");    scanf("%d", &day);    // Ensure the day number is valid    if (day < 1 || day > 365) {        printf("Invalid day number. Please enter a number between 1 and 365.\n");        return 1;    }    // Calculate the week number    week = (day - 1) / 7 + 1;    // Use switch to print out the week based on the calculated week number    switch (week) {        case 1 ... 52:            printf("Day %d falls in Week %d.\n", day, week);            break;        case 53:            // Days beyond day 364 fall into a partial week            printf("Day %d falls in Week 53 (partial week).\n", day);            break;        default:            printf("Error calculating the week.\n");    }    return 0;}