if number is less than 10 print one digit on screen

```
#include <stdio.h>

int main() {
    int number;

    // Prompt the user to enter a number
    printf("Enter a number: ");

    // Read the integer input from the user
    scanf("%d", &number);

    // Check if the number is less than 10
    if (number < 10) {
        printf("one digit\n");
    } else {
        printf("The number is not less than 10.\n");
    }

    return 0;
}
```

if a number greater than or equal to 100 print two digits on screen

```
#include <stdio.h>

int main() {
    int number;

    // Prompt the user to enter a number
    printf("Enter an integer: ");
    scanf("%d", &number);

    // Check if the number is greater than or equal to 100
    if (number >= 100) {
        // Calculate the last two digits using the modulo operator
        int lastTwoDigits = number % 100;
        printf("The number is greater than or equal to 100.\n");
        printf("The last two digits are: %02d\n", lastTwoDigits);
    } else {
        printf("The number is less than 100.\n");
    }

    return 0;
}
```

other wise print integers on screen

```
#include <stdio.h>

int main() {
    int number;

    // Prompt the user to enter an integer
    printf("Enter an integer: ");
    scanf("%d", &number);

    // Check conditions
    if (number % 2 == 0) {
        printf("The number %d is even.\n", number);
    } else if (number > 0) {
        printf("The number %d is positive.\n", number);
    } else if (number >= -9 && number <= 9) { // Checks for single-digit numbers (including 0 and negative single-digits)
        printf("The number %d is a single-digit number.\n", number);
    } else {
        // If none of the above conditions are met, print the integer
        printf("None of the specific conditions were met. The integer is: %d\n", number);
    }

    return 0;
}
```

write a pgm to find given year is leap year or not

```
#include <stdio.h>

int main() {
    int year;

    // Prompt the user to enter a year
    printf("Enter a year: ");
    // Read the year input from the user
    scanf("%d", &year);

    // Check for leap year conditions
    // A year is a leap year if it is divisible by 400
    // OR if it is divisible by 4 but not by 100
    if ((year % 400 == 0) || (year % 4 == 0 && year % 100 != 0)) {
        printf("%d is a leap year.\n", year);
    } else {
        printf("%d is not a leap year.\n", year);
    }
```

```
        return 0;
}
```

write a pgm to check weather a character is an alphabet digit or special character

```
#include <stdio.h>

int main() {
        char ch;

        // Prompt the user to enter a character
        printf("Enter any character: ");
        scanf("%c", &ch);

        // Check if the character is an alphabet
        if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
                printf("'%c' is an alphabet.\n", ch);
        }
        // Check if the character is a digit
        else if (ch >= '0' && ch <= '9') {
                printf("'%c' is a digit.\n", ch);
        }
        // If it's neither an alphabet nor a digit, it's a special character
        else {
                printf("'%c' is a special character.\n", ch);
        }

        return 0;
}
```

write a pgm to check wether an alphabate vowel or a constant

```
#include <stdio.h>
#include <ctype.h> // Required for toupper() function

int main() {
        char ch;

        // Prompt the user to enter an alphabet
        printf("Enter an alphabet: ");
        scanf(" %c", &ch); // The space before %c handles any leftover newline characters from
previous inputs

        // Convert the character to uppercase to simplify vowel checking
        char upper_ch = toupper(ch);

        // Check if the character is an alphabet
        if ((upper_ch >= 'A' && upper_ch <= 'Z')) {
```

```
            //Checkifit's a vowel
            if (upper_ch == 'A' || upper_ch == 'E' || upper_ch == 'I' || upper_ch == 'O' || upper_ch ==
'U') {
                printf("'%c' is a VOWEL.\n", ch);
            } else {
                printf("'%c' is a CONSONANT.\n", ch);
            }
        } else {
            printf("'%c' is not an alphabet.\n", ch);
        }

        return 0;
}
write a pgm to    read any day number in integr and display name in word format
#include <stdio.h>

int main() {
    int dayNumber;

    // Prompt the user to enter a day number
    printf("Enter a day number (1-7): ");
    // Read the integer input from the user
    scanf("%d", &dayNumber);

    // Use a switch statement to determine the day name
    switch (dayNumber) {
        case 1:
            printf("Sunday\n");
            break;
        case 2:
            printf("Monday\n");
            break;
        case 3:
            printf("Tuesday\n");
            break;
        case 4:
            printf("Wednesday\n");
            break;
    case 5:
            printf("Thursday\n");
            break;
    case 6:
            printf("Friday\n");
            break;
```

```
        case 7:
            printf("Saturday\n");
            break;
        default:
            printf("Invalid day number. Please enter a number between 1 and 7.\n");
            break;
}

return 0;
}
```