//Write a C program to accept a character and print if it is alphabet or digit or special symbol

#include<stdio.h>

#include<ctype.h>

void main()

{

    char a;

    printf("Enter a character\n");

    scanf("%c", &a);

    if (isalpha(a) != 0)

        printf("%c is an alphabet\n", a);

    else if (isdigit(a) != 0)

        printf("%c is a digit\n", a);

    else

printf("%c is a special character\n", a);

}

Or

#include<stdio.h>

void main()

{

    char a;

    printf("Enter any character: \n");

    scanf("%c", &a);

    if((a >= 'a' && a <= 'z') || (a >= 'A' && a <= 'Z'))

        printf("'%c' is alphabet\n", a);

    else if(a >= '0' && a <= '9')

        printf("'%c' is digit\n", a);

    else

        printf("'%c' is special character\n", a);

}

Write a C program to find maximum number out of 4 numbers entered by user

#include <stdio.h>

void main()

{

    int a, b, c, d;

    printf("Enter 4 numbers\n");

    scanf("%d %d %d %d", &a, &b, &c, &d);

    if (a > b && a > c && a > d)

        printf("%d is the greatest\n", a);

    else if (b > c && b > d)

        printf("%d is the greatest\n", b);

    else if (c > d)

        printf("%d is the greatest\n", c);

    else

        printf("%d is the greatest\n", d);

}

Write a C program to implement Calculator program using switch case statement

#include<stdio.h>

void main()

{

    int a, b, s;

    printf("Enter two numbers\n");

    scanf("%d %d", &a, &b);

    printf("Enter the operation you want to do\n");

    printf("1. Addition\n");

    printf("2. Subtraction\n");

    printf("3. Multiplication\n");

    printf("4. Division\n");

    scanf("%d", &s);

    switch (s)

    {

        case 1:

            printf("%d + %d = %d", a, b, a+b);

            break;

        case 2:

            printf("%d - %d = %d", a, b, a-b);

            break;

        case 3:

            printf("%d \* %d = %d", a, b, a\*b);

            break;

        case 4:

            printf("%d / %d = %d", a, b, a/b);

    }

}

Write a C program to reverse a 4 digit number.

#include <stdio.h>

void main()

{

    int num, i, n = 0;

    printf("Enter a 4 digit number\n");

    scanf("%d", &num);

    while (num > 0)

    {

        n = n \* 10;

        n = n + (num % 10);

        num = num / 10;

    }

    printf("The reversed number is %d\n", n);

}

Write a C program to check if a number is an Armstrong number of not

( If number is equal to sum of all digits where each digit is raise to 3 e.g : 153, 370, 371.)

#include <stdio.h>

void main()

{

    int num, digit, sum = 0, num1;

    printf("Enter a number\n");

    scanf("%d", &num);

    num1 = num;

    while (num1 > 0)

    {

        digit = num1 % 10;

        digit = digit \* digit \* digit;

        sum = sum + digit;

        num1 = num1 / 10;

    }

    if (num == sum)

        printf("%d is an Armstrong number\n", num);

    else

        printf("%d is not an Armstrong number\n", num);

}