1. Write a C program to find maximum between two numbers.

#include <stdio.h>

int findMax(int num1, int num2) {

return (num1 > num2) ? num1 : num2;

}

int main() {

int num1, num2;

// Input two numbers from user

printf("Enter first number: ");

scanf("%d", &num1);

printf("Enter second number: ");

scanf("%d", &num2);

// Find and print the maximum

printf("Maximum between %d and %d is: %d\n", num1, num2, findMax(num1, num2));

return 0;

}

1. Write a C program to find maximum between three numbers.

#include <stdio.h>

int findMaxOfThree(int num1, int num2, int num3) {

int max = (num1 > num2) ? num1 : num2;

return (max > num3) ? max : num3;

}

int main() {

int num1, num2, num3;

// Input three numbers from user

printf("Enter first number: ");

scanf("%d", &num1);

printf("Enter second number: ");

scanf("%d", &num2);

printf("Enter third number: ");

scanf("%d", &num3);

// Find and print the maximum

printf("Maximum between %d, %d, and %d is: %d\n", num1, num2, num3, findMaxOfThree(num1, num2, num3));

return 0;

}

1. Write a C program to check whether a number is negative, positive or zero.

#include <stdio.h>

void checkNumber(int number) {

if (number > 0) {

printf("%d is positive.\n", number);

} else if (number < 0) {

printf("%d is negative.\n", number);

} else {

printf("The number is zero.\n");

}

}

int main() {

int num;

// Input number from user

printf("Enter a number: ");

scanf("%d", &num);

// Check and print whether the number is negative, positive, or zero

checkNumber(num);

return 0;

}

1. Write a C program to check whether a number is divisible by 5 and 11 or not.

#include <stdio.h>

void checkDivisibility(int number) {

if (number % 5 == 0 && number % 11 == 0) {

printf("%d is divisible by both 5 and 11.\n", number);

} else {

printf("%d is not divisible by both 5 and 11.\n", number);

}

}

int main() {

int num;

// Input number from user

printf("Enter a number: ");

scanf("%d", &num);

// Check and print divisibility

checkDivisibility(num);

return 0;

}

1. Write a C program to check whether a number is even or odd.

#include <stdio.h>

void checkEvenOdd(int number) {

if (number % 2 == 0) {

printf("%d is even.\n", number);

} else {

printf("%d is odd.\n", number);

}

}

int main() {

int num;

// Input number from user

printf("Enter a number: ");

scanf("%d", &num);

// Check and print whether the number is even or odd

checkEvenOdd(num);

return 0;

}

1. Write a C program to check whether a year is leap year or not.

#include <stdio.h>

int isLeapYear(int year) {

if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {

return 1; // Leap year

} else {

return 0; // Not a leap year

}

}

int main() {

int year;

// Input year from user

printf("Enter a year: ");

scanf("%d", &year);

// Check and print whether the year is a leap year or not

if (isLeapYear(year)) {

printf("%d is a leap year.\n", year);

} else {

printf("%d is not a leap year.\n", year);

}

return 0;

}

1. Write a C program to check whether a character is alphabet or not.

#include <stdio.h>

int isAlphabet(char ch) {

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

return 1; // Alphabet

} else {

return 0; // Not an alphabet

}

}

int main() {

char character;

// Input character from user

printf("Enter a character: ");

scanf(" %c", &character);

// Check and print whether the character is an alphabet or not

if (isAlphabet(character)) {

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

} else {

printf("%c is not an alphabet.\n", character);

}

return 0;

}

1. Write a C program to input any alphabet and check whether it is vowel or consonant.

#include <stdio.h>

int isVowel(char ch) {

ch = tolower(ch); // Convert to lowercase for case-insensitivity

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {

return 1; // Vowel

} else {

return 0; // Consonant

}

}

int main() {

char character;

// Input character from user

printf("Enter an alphabet: ");

scanf(" %c", &character);

// Check and print whether the character is a vowel or consonant

if (isVowel(character)) {

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

} else {

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

}

return 0;

}

9. Write a C program to input any character and check whether it is alphabet, digit or special

character.

#include <stdio.h>

void checkCharacterType(char ch) {

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

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

} else if (ch >= '0' && ch <= '9') {

printf("%c is a digit.\n", ch);

} else {

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

}

}

int main() {

char character;

// Input character from user

printf("Enter a character: ");

scanf(" %c", &character);

// Check and print the type of character

checkCharacterType(character);

return 0;

}