**Write a code to showcase example of multilevel inheritance in c#**

using System;

namespace inherit{

class Grandfather {

public void Display() {

Console.WriteLine("Grandfather");

}

}

class Father : Grandfather {

public void DisplayOne() {

Console.WriteLine("Father");

}

}

}

class Son : Father {

public void DisplayTwo() {

Console.WriteLine("Son ");

}

static void Main(string[] args) {

Son s = new Son();

s.Display();

s.DisplayOne();

s.DisplayTwo();

Console.Read();

}

}

**Write a code to print number 1 to 10 and remove 6.**

using System;

public class Program

{

public static void Main(string[] args)

{

for(int i=1; i<=10; i++)

{

if (i !=6)

{

Console.WriteLine (i);

}

}

Console.ReadLine();

}

}

**Write a code to check a number is positive or negative.**

using System;

class Test {

static void Main(string[] args) {

int number;

Console.Write("Enter an integer number: ");

number = Convert.ToInt32(Console.ReadLine());

if (number > 0)

Console.WriteLine("{0} is a positive number", number);

else if (number < 0)

Console.WriteLine("{0} is a negative number", number);

else

Console.WriteLine("{0} is a Zero", number);

Console.ReadLine();

}

}

}

**Write a code to find the largest number.**

using System;

class Test {

static void Main(string[] args) {

int a;

int b;

Console.Write("Enter first number : ");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter second number: ");

b = Convert.ToInt32(Console.ReadLine());

int large = (a > b) ? a : b;

Console.WriteLine("Largest number is {0}", large);

Console.ReadLine();

}

}

**Printing WeekDay name using Switch statement.**

using System;

class Test {

static void Main(string[] args) {

int day;

Console.Write("Enter day number from 0 to 6: ");

day = Convert.ToInt32(Console.ReadLine());

switch (day) {

case 0:

Console.WriteLine("Sunday");

break;

case 1:

Console.WriteLine("Monday");

break;

case 2:

Console.WriteLine("Tuesday");

break;

case 3:

Console.WriteLine("Wednesday");

break;

case 4:

Console.WriteLine("Thursday");

break;

case 5:

Console.WriteLine("Friday");

break;

case 6:

Console.WriteLine("Saturday");

break;

default:

Console.WriteLine("Invalid Input");

break;

}

Console.ReadLine();

}

}

**Find the maximum number and minimum number between two numbers.**

using System;

class Test {

static void Main(string[] args) {

int a;

int b;

int min;

int max;

Console.Write("Enter first number : ");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter second number: ");

b = Convert.ToInt32(Console.ReadLine());

if (a > b)

{

max = a;

}

else

max = b;

if (a < b)

{

min = a;

}

else

min = b;

Console.WriteLine("Minimum number = {0}", min);

Console.WriteLine("Maximum number = {0}", max);

}

}

**Find largest of two numbers.**

using System;

class Test {

static void Main(string[] args) {

int a;

int b;

int large;

Console.Write("Enter first number : ");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter second number: ");

b = Convert.ToInt32(Console.ReadLine());

if (a > b)

large = a;

else

large = b;

Console.WriteLine("Largest number is {0}", large);

Console.ReadLine();

}

}

**Find length of the String**

using System;

public class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter a string value :");

string str =Console.ReadLine();

int length = 0;

foreach (char c in str)

{

if (c == '\0')

{

break;

}

length++;

}

Console.WriteLine($"The length of the string \"{str}\" is {length}.");

Console.ReadLine();

}

}

**Program to design a Calculator using if else.**

using System;

public class Program

{

static void Main(string[] args) {

Console.WriteLine("1.Add");

Console.WriteLine("2.Substract");

Console.WriteLine("3.Multiply");

Console.WriteLine("4.Divide");

Console.Write("Enter Choice(1-4):");

int ch = Int32.Parse(Console.ReadLine());

int a, b, c;

if (ch == 1) {

Console.Write("Enter A:");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter B:");

b = Convert.ToInt32(Console.ReadLine());

c = a + b;

Console.WriteLine("Sum = {0}", c);

} else if (ch == 2) {

Console.Write("Enter A:");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter B:");

b = Convert.ToInt32(Console.ReadLine());

c = a - b;

Console.WriteLine("Difference = {0}", c);

} else if (ch == 3) {

Console.Write("Enter A:");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter B:");

b = Convert.ToInt32(Console.ReadLine());

c = a \* b;

Console.WriteLine("Product = {0}", c);

} else if (ch == 4) {

Console.Write("Enter A:");

a = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter B:");

b = Convert.ToInt32(Console.ReadLine());

c = a / b;

Console.WriteLine("Quotient = {0}", c);

} else {

Console.WriteLine("Invalid Choice");

}

Console.ReadLine();

}

}

Program to find positive numbers from an array

using System;

public class Program

{

static void Main() {

int i = 0;

int[] arr = new int[5];

Console.WriteLine("Enter array elements : ");

for (i = 0; i < arr.Length; i++) {

Console.Write("Element[" + (i + 1) + "]: ");

arr[i] = int.Parse(Console.ReadLine());

}

Console.WriteLine("List of positive numbers : ");

for (i = 0; i < arr.Length; i++) {

if (arr[i] >= 0)

Console.Write(arr[i] + " ");

}

Console.WriteLine();

}

}

## Program to find leap years from an array

using System;

public class Program

{

static void Main() {

int i = 0;

int[] arr = new int[5];

Console.WriteLine("Enter years : ");

for (i = 0; i < arr.Length; i++) {

Console.Write("Year[" + (i + 1) + "]: ");

arr[i] = int.Parse(Console.ReadLine());

}

Console.WriteLine("List of leap years : ");

for (i = 0; i < arr.Length; i++) {

if ((arr[i] % 4 == 0) && (arr[i] % 100 != 0))

Console.Write(arr[i] + " ");

else if ((arr[i] % 4 == 0) && (arr[i] % 100 == 0) && (arr[i] % 400 == 0))

Console.Write(arr[i] + " ");

}

Console.WriteLine();

}

}

## Program to insert an element at given position into an array

using System;

public class Program

{

static void Main() {

int i = 0;

int pos = 0;

int item = 0;

int[] arr = new int[10];

//Read numbers into array

Console.WriteLine("Enter numbers : ");

for (i = 0; i < 5; i++) {

Console.Write("Element[" + (i + 1) + "]: ");

arr[i] = int.Parse(Console.ReadLine());

}

Console.Write("Enter position : ");

pos = int.Parse(Console.ReadLine());

Console.Write("Enter new item : ");

item = int.Parse(Console.ReadLine());

//Perform shift opearation

for (i = 5; i >= pos; i--) {

arr[i] = arr[i - 1];

}

arr[pos - 1] = item;

//print array after insertion

Console.WriteLine("Array elements after insertion : ");

for (i = 0; i < 6; i++) {

Console.WriteLine("Element[" + (i + 1) + "]: " + arr[i]);

}

Console.WriteLine();

}

}

Program to [delete an element from given position from array using C#](https://www.includehelp.com/dot-net/delete-an-element-from-given-position-from-array-using-c-sharp-program.aspx)

using System;

public class Program

{

public static void Main(string[] args)

{

int i = 0;

int pos = 0;

int[] arr = new int[10];

Console.WriteLine("Enter numbers : ");

for (i = 0; i < 5; i++) {

Console.Write("Element[" + (i + 1) + "]: ");

arr[i] = int.Parse(Console.ReadLine());

}

Console.Write("Enter position to delete item : ");

pos = int.Parse(Console.ReadLine());

for (i = pos - 1; i < 5; i++) {

arr[i] = arr[i + 1];

}

Console.WriteLine("Array elements after deletion : ");

for (i = 0; i < 4; i++) {

Console.WriteLine("Element[" + (i + 1) + "]: " + arr[i]);

}

Console.WriteLine();

}

}