Que1 Write the C# code to display “<n> minute(s) ago" if difference between both dates is less than an hour and “<n> hour(s) ago" if the difference is less than a day and “<n> day(s) ago" if the difference is less than a month and the date if the difference is more than a month

Using System;

namespace Assignments

{

class Program

{

public static string getTimeStamp(DateTime currentDate, DateTime updateDate)

{

int YearDiff = currentDate.Year - updateDate.Year;

int MonthDiff = currentDate.Month - updateDate.Month;

int DayDiff = currentDate.Day - updateDate.Day;

int HourDiff = currentDate.Hour - updateDate.Hour;

int MinuteDiff = currentDate.Minute - updateDate.Minute;

int SecondDiff = currentDate.Second - updateDate.Second;

if (YearDiff > 1)

return $"File was updated {YearDiff} years ago";

else if (MonthDiff > 1)

return $"File was updated {MonthDiff} Months ago";

else if (DayDiff > 1)

return $"File was updated {DayDiff} Days ago";

else if (HourDiff > 1)

return $"File was updated {HourDiff} Hours ago";

else if (MinuteDiff > 1)

return $"File was updated {MinuteDiff} Minutes ago";

else

return $"File was updated {SecondDiff} Seconds ago";

}

static void Main(string[] args)

{

DateTime currentDate = DateTime.Now;

Console.Write("Enter Date (dd-mm-yyyy hh:mm:ss) : ");

DateTime oldDate = DateTime.Parse(Console.ReadLine());

Console.WriteLine("\n\n" + getTimeStamp(currentDate, oldDate));

Console.ReadKey();

}

}

}

Ques 2 Write a program in C# Sharp to create and read last n number of lines of a file. [Go to the editor](https://www.w3resource.com/csharp-exercises/file-handling/index.php#editorr)

using System;

namespace Assignments

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("How many lines you want to enter");

int LineNum = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter some text lines to enter in text file: \n");

string[] textToWrite = new string[LineNum];

for (int i = 0; i < textToWrite.Length; i++)

{

Console.Write($"Line {i + 1} : ");

textToWrite[i] = Console.ReadLine();

}

File.WriteAllLines(@"G:\spek.txt", textToWrite);

Console.WriteLine("Text written in the file successfully...\n\n");

Console.WriteLine("How many files you want to disply: ");

int getLines = Convert.ToInt32(Console.ReadLine());

string[] GetText = File.ReadAllLines(@"G:\spek.txt");

Console.WriteLine("Here are the selected lines : \n");

foreach (string text in GetText.TakeLast(getLines))

Console.WriteLine(text);

Console.ReadKey();

}

}

}

Ques 3 Write a function:

using System;

namespace Assignments

{

class Program

{

public static int Solution(int[] A)

{

if (A.Max() <= 0)

return 1;

return (A.Max() + 1);

}

static void Main(string[] args)

{

int[] IntArr = { 1,2,3 };

foreach (int i in IntArr)

Console.Write(i + ", ");

Console.WriteLine("\n\nSmallest positive integer that is not in Array is : " + Solution(IntArr));

Console.ReadKey();

}

}

}

Ques4 Given six digits, find the earliest valid time that can be displayed on a digital clock (in 24-hour format) using those digits

using System;

namespace Assignments

{

class Program

{

public static string Solution(int A, int B, int C, int D, int E, int F)

{

int[] ClockDigits = { A, B, C, D, E, F };

Array.Sort(ClockDigits);

string ClockTime = "";

if (ClockDigits[0] > 2 && ClockDigits[1] > 4)

return "Not Possible to have more than 24 hours in a day...";

if (ClockDigits[2] > 5 && ClockDigits[3] > 9)

return "Not Possible to have more than 59 minutes in a hour...";

if (ClockDigits[4] > 5 && ClockDigits[5] > 9)

return "Not Possible to have more than 59 seconds in a minute...";

else

{

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

{

ClockTime += ClockDigits[i].ToString();

if (i == 1 || i == 3)

ClockTime += ":";

}

return $"Minimum time for the clock is : {ClockTime}";

}

}

static void Main(string[] args)

{

Console.WriteLine("Enter 6 single digits for digital clock: ");

Console.Write("Digit 1 : ");

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

Console.Write("Digit 2 : ");

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

Console.Write("Digit 3 : ");

int c = Convert.ToInt32(Console.ReadLine());

Console.Write("Digit 4 : ");

int d = Convert.ToInt32(Console.ReadLine());

Console.Write("Digit 5 : ");

int e = Convert.ToInt32(Console.ReadLine());

Console.Write("Digit 6 : ");

int f = Convert.ToInt32(Console.ReadLine());

Console.WriteLine(Solution(a, b, c, d, e, f));

Console.ReadKey();

}

}

}

Ques5 Reverse the ordering of words in a String

Using System;

namespace Assignments

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter a string of words : ");

string Str = Console.ReadLine();

string[] Words = Str.Split(" ");

Console.Write("\n\nReversed String of words : ");

foreach (string word in Words.Reverse())

Console.Write(word + " ");

Console.ReadKey();

}

}

}