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;

using System.Linq;

namespace task3

{

class Program

{

static void Main(string[] args)

{

int[] arr = { 1,3,6,4,1,2 };

Console.Write("Array is : ");

foreach (int i in arr)

{

Console.Write(i + " ");

}

Solution s = new Solution();

Console.Write("\nSmallest Postive Integer that is missing in the Array is : {0} ", s.solution(arr));

Console.ReadKey();

}

}

class Solution

{

public int solution(int[] A)

{

if (!A.Contains(1))

{

return 1;

}

int res = A.Max();

foreach (var n in A)

{

if (n > 0 && n <= res)

{

if (!A.Contains(n + 1))

{

res = n + 1;

}

}

}

return res;

}

}

}

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 task4

{

class task

{

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

{

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

Array.Sort(d);

if (d[4] < 6)

{

if (10 \* d[0] + d[1] < 24)

return " Minimum Time Can Be " + d[0] + d[1] + ":" + d[2] + d[3] + ":" + d[4] + d[5];

else

return " Impossible To Make Time From These Digits.. ";

}

else if (d[3] < 6)

{

if (10 \* d[0] + d[1] < 24)

return " Minimum Time Can Be " + d[0] + d[1] + ":" + d[2] + d[4] + ":" + d[3] + d[5];

else

return " Impossible To Make Time From These Digits..";

}

else if (d[2] < 6)

{

if (10 \* d[0] + d[3] < 24)

return " Minimum Time Can Be " + d[0] + d[3] + ":" + d[1] + d[4] + ":" + d[2] + d[5];

else

return " Impossible To Make Time From These Digits.. ";

}

else

{

return " Impossible To Make Time From These Digits.. ";

}

}

static void Main()

{

Console.WriteLine(" Enter six digits :");

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

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

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

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

Console.Write("Enter third digit : ");

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

Console.Write("Enter fourth digit : ");

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

Console.Write("Enter fifth digit : ");

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

Console.Write("Enter sixth digit : ");

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();

}

}

}