

```

// Introduction to Windows and Web Applications in C#
// example solution to the second assignment
// (tally votes, guess the number, composite formatting)
// copyright 2013 Bruce M Reynolds

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace Solution2
{
    class Program
    {
        static void Main(string[] args)
        {
            Election();
            Guess();
            Dates();
        }

        /// <summary>
        /// Create an application that tallies votes. Voters can vote for one of four
        /// candidates, whose names you pick. The user enters the names one per line,
        /// entering a blank line when there are no more votes to tally. The output
        /// is a table that shows the total votes for each candidate. Do something
        /// reasonable with input that isn't one of the four candidates.
        /// </summary>
        public static void Election()
        {
            int george = 0;
            int abraham = 0;
            int thomas = 0;
            int john = 0;
            int other = 0;
            string answer = "";

            Console.WriteLine("Enter the votes: ");
            while ((answer = Console.ReadLine()) != "")
            {
                switch (answer.ToLower())
                {
                    case "george":
                        george++;
                        break;
                    case "abraham":
                        abraham++;
                        break;
                    case "thomas":
                        thomas++;
                        break;
                    case "john":
                        john++;
                        break;
                    default:
                        other++;
                        break;
                }
            }
        }
    }
}

```

```

    }
    Console.WriteLine("George: {0}", george);
    Console.WriteLine("Abraham: {0}", abraham);
    Console.WriteLine("Thomas: {0}", thomas);
    Console.WriteLine("John: {0}", john);
    Console.WriteLine("Other: {0}", other);
}

/// <summary>
/// Write a console application program that plays "guess the number". Your
/// program should pick a random number between 0 and 1000. When the user
/// enters a guess, your program should the user give a hint on whether the
/// guess is too high or too low. When the user finally guesses the correct
/// answer, reward the user with "Congratulations!" or some other message.
/// </summary>
public static void Guess()
{
    Random rand = new Random();
    int number = rand.Next(1, 6);

    bool guessed = false;
    string answer = "";
    int currentGuess = 0;
    while (!guessed)
    {
        Console.Write("Guess a number between 1 and 5: ");
        answer = Console.ReadLine();
        currentGuess = int.Parse(answer);
        if (currentGuess == number)
        {
            Console.WriteLine("You win.");
            guessed = true;
        }
        else if (currentGuess < number)
        {
            Console.WriteLine("too low");
        }
        else if (currentGuess > number)
        {
            Console.WriteLine("too high");
        }
    }
}

/// <summary>
/// Use the DateTime structure and composite formatting in an application
/// that you specify.
/// </summary>
public static void Dates()
{
    DateTime hour = DateTime.Now;
    Console.WriteLine("The time is {0:hh:mm:ss}.", hour);
}
}

```