```
using System;
using System.IO;  // add input/output File Library

namespace Prac8 // Example
{
   class Program
   {
      static string GetString(string prompt)
      {
         string data = "";
         while(data == "")
         {
            Console.Write(prompt);
            data = Console.ReadLine();
            if (data == "") Console.WriteLine("Input can't be empty");
         }
         return data;
      }
      static void Main()
      {

         // create file
         try
         {
            FileStream fs = new FileStream("h:\\data.txt", FileMode.Create, FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);
            //sw.WriteLine("This is prac 8 SIT102\nRead and write data to file\nFor assignment 2 part A");
            string data = "";
            while(data.ToLower() != "stop")
            {
               data = GetString("Enter data or type stop to finish: ");
               if (data.ToLower() != "stop") sw.WriteLine(data);
            }

            sw.Close();
         }
         catch(Exception error)
         {
            Console.WriteLine("Error in create the data.txt file - {0}", error.Message);
         }

         // read the file data
         Console.WriteLine("\nRead the data back from data.txt file:");
         try
         {
            FileStream fs = new FileStream("h:\\data.txt", FileMode.Open, FileAccess.Read);
            StreamReader sr = new StreamReader(fs);
            string line = sr.ReadLine();
            while(line != null)
            {
               Console.WriteLine(line);
```

```
                line = sr.ReadLine();
            }
            sr.Close();
        }
        catch (Exception error)
        {
            Console.WriteLine("Error in Open the input data.txt file - {0}", error.Message);
        }
    }
  }
}

// Prac8Q1

using System;
using System.IO; // add input/output FILE library

namespace Prac8
{
  class Program
  {
    static string GetString(string prompt)
    {
        string data = "";
        while(data == "")
        {
            Console.Write(prompt);
            data = Console.ReadLine();
            if (data == "") Console.WriteLine("Input can't be empty - try again");
        }
        return data;
    }
    static void Main()
    {

        // write to a file
        try
        {
            FileStream fs = new FileStream("h:\\data.txt", FileMode.Create, FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);
            string input = "";
            while(input.ToLower() != "stop")
            {
                input = GetString("Enter data or type stop to finish: ");
                if (input.ToLower() != "stop") sw.WriteLine(input);
            }

            sw.Close();
        }
        catch(Exception error)
        {
```

```
            Console.WriteLine("Error  can't create the data.txt  file - {0}", error.Message);
        }


        // Read data from a file
        try
        {
            FileStream  fs = new FileStream("h:\\data.txt",  FileMode.Open,  FileAccess.Read);
            StreamReader  sr = new StreamReader(fs);
            string  input = sr.ReadLine();
            while (input != null)
            {
                Console.WriteLine(input);
                input = sr.ReadLine();
            }

            sr.Close();
        }
        catch  (Exception  error)
        {
            Console.WriteLine("Error  can't Open the input data.txt  file - {0}", error.Message);
        }

    }
  }
}

// Prac8Q2

using System;
using System.IO;  // add input/output  FILE library

namespace  Prac8
{
  class Program
  {
    static  string GetString(string  prompt)
    {
        string  data = "";
        while(data  == "")
        {
            Console.Write(prompt);
            data = Console.ReadLine();
            if (data == "") Console.WriteLine("Input  can't be empty - try again");
        }
        return  data;
    }
    static  void Main()
    {

        // write to a file
```

```
        try
        {
            FileStream fs = new FileStream("h:\\numbers.txt", FileMode.Create, FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);
            string input = "";
            while(input.ToLower() != "stop")
            {
                input = GetString("Enter data or type stop to finish: ");
                if (input.ToLower() != "stop")
                {
                    int num;
                    if (int.TryParse(input, out num) == true || num < 0 || num > 130)
                        sw.WriteLine(input);
                }
            }

            sw.Close();
        }
        catch(Exception error)
        {
            Console.WriteLine("Error can't create the person.txt file - {0}", error.Message);
        }


        // Read data from a file
        try
        {
            string[] Name = new string[50];
            int[] Age = new int[50];
            int last = 0;
            FileStream fs = new FileStream("h:\\numbers.txt", FileMode.Open, FileAccess.Read);
            StreamReader sr = new StreamReader(fs);

            StreamWriter sw = File.CreateText(@"h:\even.txt");
            string input = sr.ReadLine();
            while (input != null)
            {
                int num;
                if(int.TryParse(input, out num) == true && num % 2 == 0) sr.WriteLine(num);
                input = sr.ReadLine();
            }
            sw.Close();
            sr.Close();
        }
        catch (Exception error)
        {
            Console.WriteLine("Error can't Open the input person.txt file - {0}", error.Message);
        }
    }
  }
}
```

```
// Prac8Q3
using System;
using System.IO;  // add input/output FILE library
namespace Prac8
{
   class Program
   {
      static string GetString(string prompt)
      {
         string data = "";
         while(data == "")
         {
            Console.Write(prompt);
            data = Console.ReadLine();
            if (data == "") Console.WriteLine("Input can't be empty - try again");
         }
         return data;
      }
      static void Main()
      {
         // write to a file
         try
         {
            FileStream fs = new FileStream("h:\\person.txt", FileMode.Create, FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);

            string[] Name = new string[4] { "Jason Wells", "Frank Slim", "Tom Jones", "Mark Fits" };
            int[] Age = new int[4] { 45, 34, 57, 89 };
            for (int i = 0; i < Name.Length - 1; i++) sw.WriteLine("{0},{1}", Name[i], Age[i]);
            sw.Write("{0},{1}", Name[Name.Length-1], Age[Name.Length -1]);

            sw.Close();
         }
         catch(Exception error)
         {
            Console.WriteLine("Error can't create the person.txt file - {0}", error.Message);
         }

         // Read data from a file
         try
         {
            string[] Name = new string[50];
            int[] Age = new int[50];
            int last = 0;

            FileStream fs = new FileStream("h:\\person.txt", FileMode.Open, FileAccess.Read);
            StreamReader sr = new StreamReader(fs);
```

```
            string input = sr.ReadLine();
            while (input != null && last < Name.Length)
            {
                int num;
                string[] record = input.Split(',');
                if (record.Length != 2) Console.WriteLine("Reject {0} need 2 data", input);
                else if (record[0] == "") Console.WriteLine("{0} has no name", input);
                else if(int.TryParse(record[1], out num) == false || num < 0 || num > 130)
                    Console.WriteLine("{0} has invalid age", input);
                else
                {
                    Console.WriteLine("{0} is {1} year old.", record[0], record[1]);
                    Name[last] = record[0];
                    Age[last] = num;
                    last++;
                }

                input = sr.ReadLine();
            }
            sw.Close();
            sr.Close();

            Console.WriteLine("Record reading from the file");
            for (int i = 0; i < last; i++) Console.WriteLine("{0}\t{1}", Name[i], Age[i]);
        }
        catch (Exception error)
        {
            Console.WriteLine("Error can't Open the input person.txt file - {0}", error.Message);
        }

    }
  }
}
```