**//Structure Demo**

**//Author: nmessa**

namespace Structure\_Demo

{

class Program

{

public struct Brain

{

public string fact1;

public string fact2;

public string fact3;

public string fact4;

public string brainDump()

{

string contents = "";

contents = fact1 + Environment.NewLine;

contents += fact2 + Environment.NewLine;

contents += fact3 + Environment.NewLine;

contents += fact4;

return contents;

}

}

static void Main(string[] args)

{

Brain ameoba = new Brain();

string message;

ameoba.fact1 = "The weight of all the ants on earth is equal to the weight of" +

" all the humans on earth." + Environment.NewLine;

ameoba.fact2 = "The average person spends 6 months of their life sitting at " +

"red lights." + Environment.NewLine;

ameoba.fact3 = "The electric chair was invented by a dentist." +

Environment.NewLine;

ameoba.fact4 = "No word in the English language rhymes with month, orange, " +

"silver and purple.";

message = ameoba.brainDump();

Console.WriteLine(message);

}

}

}

//Output

//The weight of all the ants on earth is equal to the weight of all the humans on earth.

//The average person spends 6 months of their life sitting at red lights.

//The electric chair was invented by a dentist.

//No word in the English language rhymes with month, orange, silver and purple

**//Structure Demo Windows Application**

**//Author: nmessa**

namespace Structure\_Demo\_Windows

{

public partial class Form1 : Form

{

//Create global reference

Brain amoeba;

//Define Brain structure

public struct Brain

{

public string fact1;

public string fact2;

public string fact3;

public string fact4;

//Constructor - must have parameters

public Brain(string f1, string f2, string f3, string f4)

{

fact1 = f1;

fact2 = f2;

fact3 = f3;

fact4 = f4;

MessageBox.Show("Your amoeba has been create and educated");

}

//Structure method

public string brainDump()

{

string contents = "";

contents = fact1 + Environment.NewLine;

contents += fact2 + Environment.NewLine;

contents += fact3 + Environment.NewLine;

contents += fact4;

return contents;

}

}

public Form1()

{

InitializeComponent();

}

private void btnDump\_Click(object sender, EventArgs e)

{

string message;

message = amoeba.brainDump();

MessageBox.Show(message);

}

private void btnCreate\_Click(object sender, EventArgs e)

{

string f1, f2, f3, f4;

f1 = "The weight of all the ants on earth is equal to the weight of" +

" all the humans on earth." + Environment.NewLine;

f2 = "The average person spends 6 months of their life sitting at " +

"red lights." + Environment.NewLine;

f3 = "The electric chair was invented by a dentist." +

Environment.NewLine;

f4 = "No word in the English language rhymes with month, orange, " + "silver and purple.";

//Construct the Amoeba

amoeba = new Brain(f1, f2, f3, f4);

}

}

}

