Swinburne University of Technology

COS20007 Object Oriented Programming

1.2P - Object Oriented Hello World

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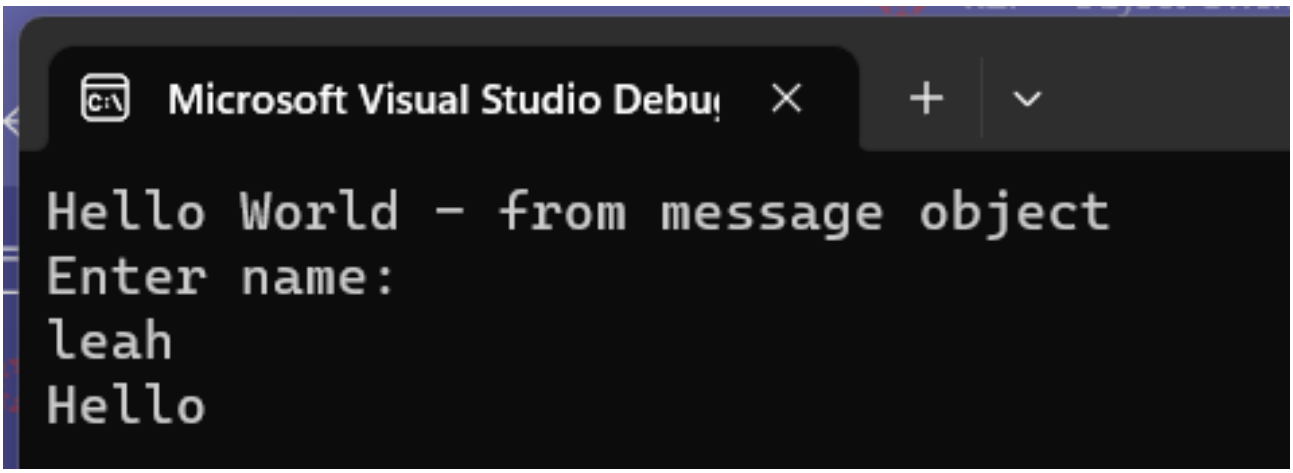
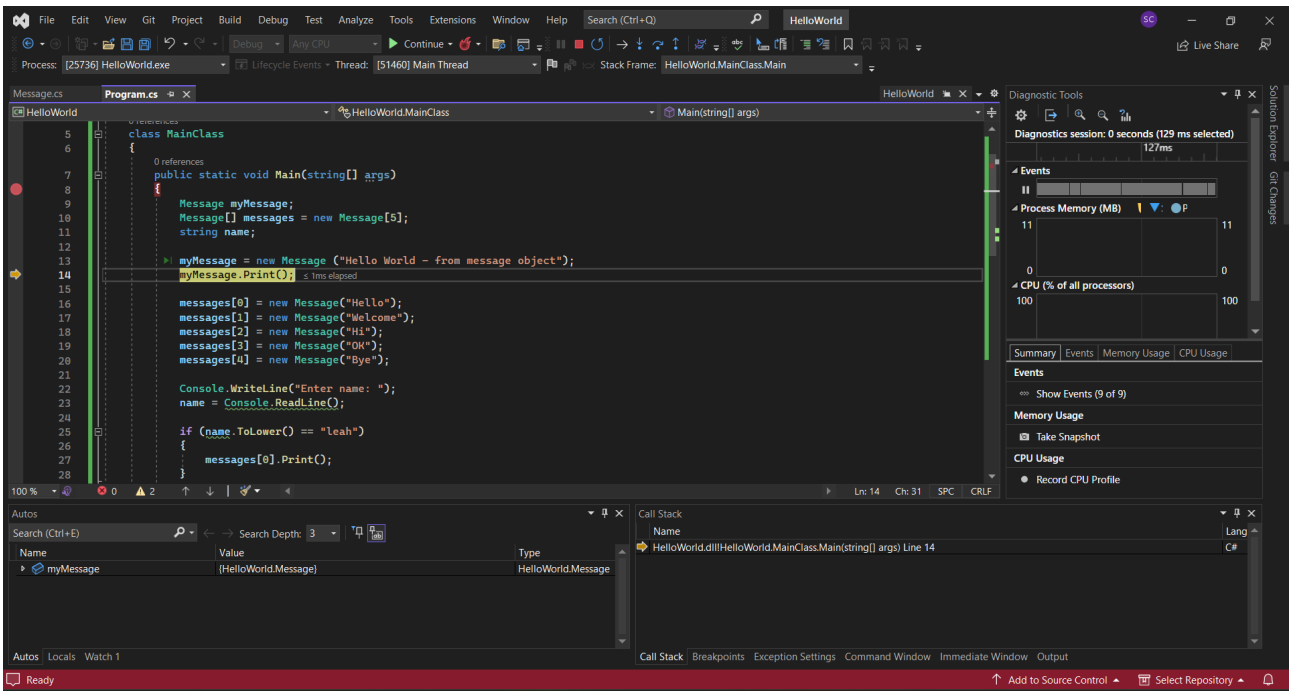
```
using System;

namespace HelloWorld
{
    class MainClass
    {
        public static void Main(string[] args)
        {
            Message myMessage;
            Message[] messages = new Message[5];
            string name;

            myMessage = new Message ("Hello World - from message object");
            myMessage.Print();

            messages[0] = new Message("Hello");
            messages[1] = new Message("Welcome");
            messages[2] = new Message("Hi");
            messages[3] = new Message("OK");
            messages[4] = new Message("Bye");

            Console.WriteLine("Enter name: ");
            name = Console.ReadLine();

            if (name.ToLower() == "leah")
            {
                messages[0].Print();
            }
            else if (name.ToLower() == "abi")
            {
                messages[1].Print();
            }
            else if (name.ToLower() == "yu")
            {
                messages[2].Print();
            }
            else if (name.ToLower() == "raza")
            {
                messages[3].Print();
            }
            else if (name.ToLower() == "alba")
            {
                messages[4].Print();
            }
            else
            {
                Console.WriteLine("unknown name");
            }

        }
    }
}
```

```
using System;

namespace HelloWorld
{
    public class Message
    {
        private string _text;

        public Message(string text)
        {
            _text = text;
        }

        public void Print()
        {
            Console.WriteLine(_text);
        }
    }

}
```


Microsoft Visual Studio Debu
Hello World - from message object
Enter name:
leah
Hello


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
HelloWorld
Live Share
Process: [25736] HelloWorld.exe
Thread: [51460] Main Thread
Stack Frame: HelloWorld.MainClass.Main
Message.cs
Program.cs
HelloWorld
HelloWorld.MainClass
Main(string[] args)
class MainClass
{
0 references
public static void Main(string[] args)
{
Message myMessage;
Message[] messages = new Message[5];
string name;
myMessage = new Message ("Hello World - from message object");
myMessage.Print();
messages[0] = new Message("Hello");
messages[1] = new Message("Welcome");
messages[2] = new Message("Hi");
messages[3] = new Message("OK");
messages[4] = new Message("Bye");
Console.WriteLine("Enter name: ");
name = Console.ReadLine();
if (name.ToLower() == "leah")
{
messages[0].Print();
}
Diagnostic Tools
Diagnostics session: 0 seconds (129 ms selected)
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (9 of 9)
Take Snapshot
Record CPU Profile
Autos
Search (Ctrl+E)
Search Depth: 3
Name
Value
Type
myMessage
{HelloWorld.Message}
HelloWorld.Message
Call Stack
Name
Lang
HelloWorld.dll!HelloWorld.MainClass.Main(string[] args) Line 14
C#
Autos
Locals
Watch 1
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Ready
Add to Source Control
Select Repository