Swinburne University of Technology

COS20007 Object Oriented Programming

1.2P - Object Oriented Hello World

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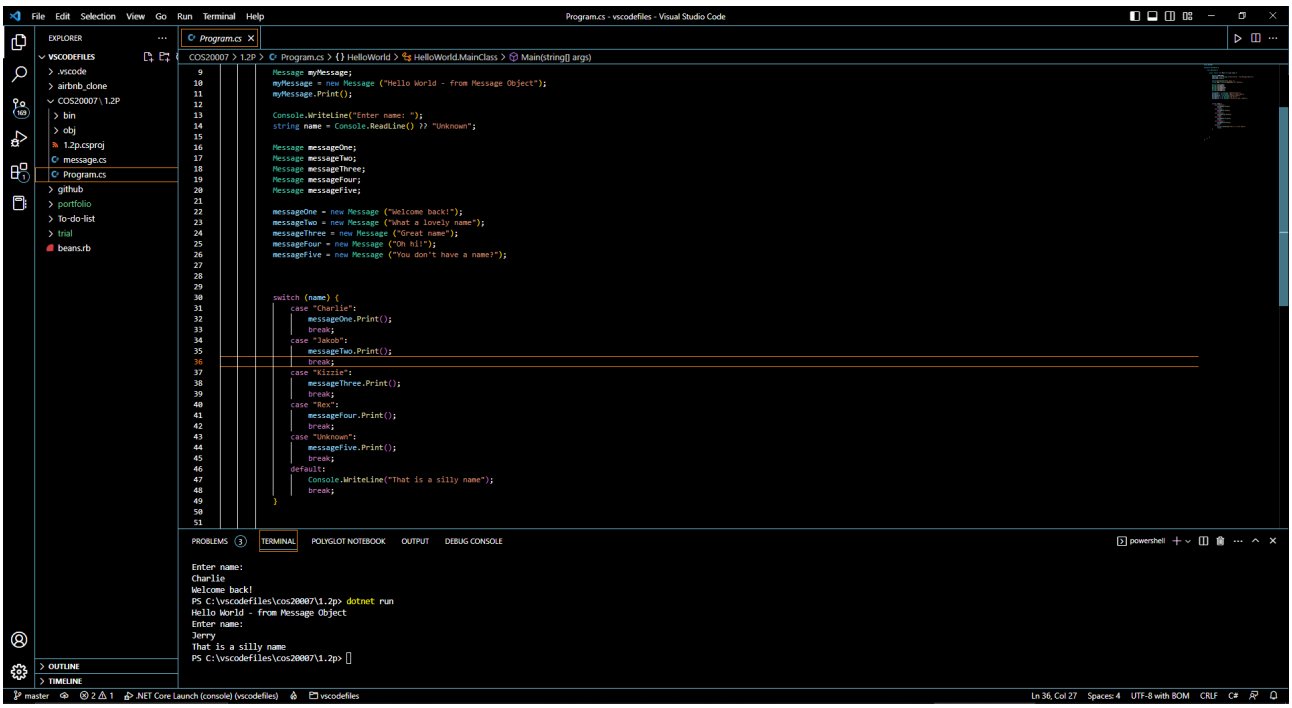
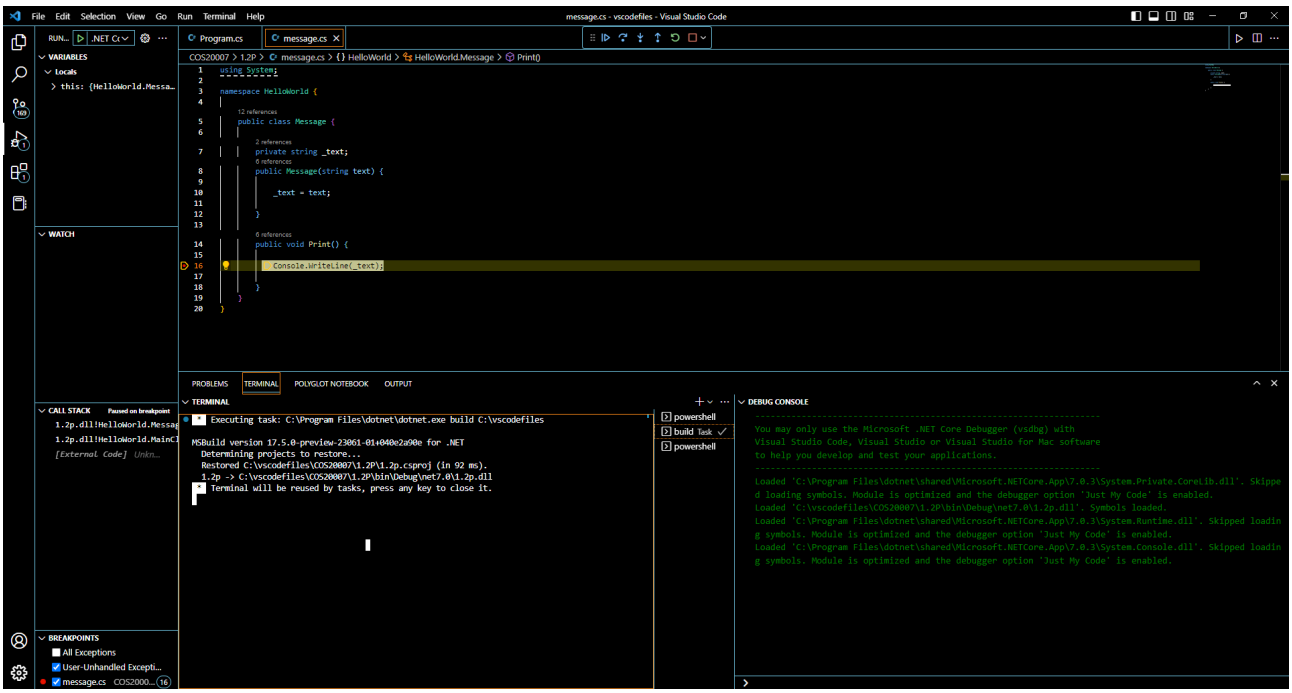
```
using System;

namespace HelloWorld {

    class MainClass {

        public static void Main (string[] args) {

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

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

            Message messageOne;
            Message messageTwo;
            Message messageThree;
            Message messageFour;
            Message messageFive;

            messageOne = new Message ("Welcome back!");
            messageTwo = new Message ("What a lovely name");
            messageThree = new Message ("Great name");
            messageFour = new Message ("Oh hi!");
            messageFive = new Message ("You don't have a name?");

            Message[] messageArray = {messageOne, messageTwo, messageThree,
↪   messageFour, messageFive};



            switch (name.ToLower()) {
                case "charlie":
                    messageArray[0].Print();
                    break;
                case "jakob":
                    messageArray[1].Print();
                    break;
                case "kizzie":
                    messageArray[2].Print();
                    break;
                case "rex":
                    messageArray[3].Print();
                    break;
                case "unknown":
                    messageArray[4].Print();
                    break;
                default:
                    Console.WriteLine("That is a silly name");
                    break;
            }

```

```
53
54
55
56
57              }
58      }
59  }
```

```
using System;

namespace HelloWorld {

    public class Message {

        private string _text;
        public Message(string text) {

            _text = text;

        }

        public void Print() {

            Console.WriteLine(_text);

        }
    }
}
```


File Edit Selection View Go Run Terminal Help
Program.cs - vscodefiles - Visual Studio Code
EXPLORER
VSCODEFILES
.vscode
airbnb_clone
COS20007\1.2P
bin
obj
1.2p.csproj
message.cs
Program.cs
github
portfolio
To-do-list
trial
beans.rb
OUTLINE
TIMELINE
COS20007 > 1.2P > Program.cs > {} HelloWorld > HelloWorld.MainClass > Main(string[] args)
Message myMessage;
myMessage = new Message ("Hello World - from Message Object");
myMessage.Print();
Console.WriteLine("Enter name: ");
string name = Console.ReadLine() ?? "Unknown";
Message messageOne;
Message messageTwo;
Message messageThree;
Message messageFour;
Message messageFive;
messageOne = new Message ("Welcome back!");
messageTwo = new Message ("What a lovely name");
messageThree = new Message ("Great name");
messageFour = new Message ("Oh hi!");
messageFive = new Message ("You don't have a name?");
switch (name) {
case "Charlie":
messageOne.Print();
break;
case "Jakob":
messageTwo.Print();
break;
case "Lizzie":
messageThree.Print();
break;
case "Rex":
messageFour.Print();
break;
case "Unknown":
messageFive.Print();
break;
default:
Console.WriteLine("That is a silly name");
break;
}
PROBLEMS 3
TERMINAL
POLYGLOT NOTEBOOK
OUTPUT
DEBUG CONSOLE
powershell
Enter name:
Charlie
Welcome back!
PS C:\vscodefiles\cos20007\1.2p> dotnet run
Hello World - from Message Object
Enter name:
Jerry
That is a silly name
PS C:\vscodefiles\cos20007\1.2p>
master
.NET Core Launch (console) (vscodefiles)
vscodefiles
Ln 36, Col 27
Spaces: 4
UTF-8 with BOM
CRLF


File Edit Selection View Go Run Terminal Help
message.cs - vscodefiles - Visual Studio Code
RUN
.NET C
VARIABLES
Locals
this: {HelloWorld.Messa...
WATCH
CALL STACK
Paused on breakpoint
1.2p.dll!HelloWorld.Messag
1.2p.dll!HelloWorld.MainCl
[External Code] Unkn...
BREAKPOINTS
All Exceptions
User-Unhandled Excepti...
message.cs COS2000... 16
Program.cs
message.cs
COS20007 > 1.2P > message.cs > {} HelloWorld > HelloWorld.Message > Print()
using System;
namespace HelloWorld {
12 references
public class Message {
2 references
private string _text;
6 references
public Message(string text) {
_text = text;
}
6 references
public void Print() {
Console.WriteLine(_text);
}
}
}
PROBLEMS
TERMINAL
POLYGLOT NOTEBOOK
OUTPUT
TERMINAL
Executing task: C:\Program Files\dotnet\dotnet.exe build C:\vscodefiles
MSBuild version 17.5.0-preview-23061-01+040e2a90e for .NET
Determining projects to restore...
Restored C:\vscodefiles\COS20007\1.2P\1.2p.csproj (in 92 ms).
1.2p -> C:\vscodefiles\COS20007\1.2P\bin\Debug\net7.0\1.2p.dll
Terminal will be reused by tasks, press any key to close it.
powershell
build Task
powershell
DEBUG CONSOLE
You may only use the Microsoft .NET Core Debugger (vsdbg) with
Visual Studio Code, Visual Studio or Visual Studio for Mac software
to help you develop and test your applications.
Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\7.0.3\System.Private.CoreLib.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
Loaded 'C:\vscodefiles\COS20007\1.2P\bin\Debug\net7.0\1.2p.dll'. Symbols loaded.
Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\7.0.3\System.Runtime.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\7.0.3\System.Console.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.