SWINBURNE UNIVERSITY OF TECHNOLOGY

COS20007 OBJECT ORIENTED PROGRAMMING

# Object Oriented Hello World

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```csharp
using System;

namespace HelloWorld
{
    public class MainClass
    {
        static void Main(string[] args)
        {
            Message myMessage = new Message("Hello World - from Message Object");

            Message[] messages = new Message[5];
            messages[0] = new Message("Welcome back!");
            messages[1] = new Message("What a lovely name");
            messages[2] = new Message("Great name");
            messages[3] = new Message("Oh hi!");
            messages[4] = new Message("That is a silly name");

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

            // Convert the user's input to lowercase for case-insensitive comparison
            string lowerCaseName = name.ToLowerInvariant();

            if (lowerCaseName == "mark")
            {
                messages[0].Print();
            }
            else if (lowerCaseName == "fred")
            {
                messages[1].Print();
            }
            else if (lowerCaseName == "wilma")
            {
                messages[2].Print();
            }
            else if (lowerCaseName == "alice")
            {
                messages[3].Print();
            }
            else
            {
                messages[4].Print();
            }

            Console.ReadLine();
        }
    }
}
```

```
1   using System;
2   namespace HelloWorld
3   {
4       public class Message
5       {
6           private string _text;
7
8           public Message(string text)
9           {
10              _text = text;
11          }
12
13          public void Print()
14          {
15              Console.WriteLine(_text);
16          }
17      }
18  }
19
```

```csharp
using System;
namespace HelloWorld
{
    public class Message
    {
        private string _text;

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

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

Terminal – HelloWorld

```
Enter name:
alice
Oh hi!
```

```
1    using System;
2
3    namespace HelloWorld
4    {
5        public class MainClass
6        {
7            static void Main(string[] args)
8            {
9                Message myMessage = new Message("Hello World - from Message Object");
10
11               Message[] messages = new Message[5];
12               messages[0] = new Message("Welcome back!");
13               messages[1] = new Message("What a lovely name");
14               messages[2] = new Message("Great name");
15               messages[3] = new Message("Oh hi!");
16               messages[4] = new Message("That is a silly name");
17
18               Console.WriteLine("Enter name: ");
19               string name = Console.ReadLine();
20
21               // Convert the user's input to lowercase for case-insensitive comparison
22               string lowerCaseName = name.ToLowerInvariant();
23
24               if (lowerCaseName == "mark")
25               {
26                   messages[0].Print();
27               }
28               else if (lowerCaseName == "fred")
29               {
30                   messages[1].Print();
```

Ln 9, Col 1   Spaces   LF

Watch    Immediate    Threads    Modules      Call Stack

| Name | Value | Type |
|------|-------|------|
| Add item to watch | | |

| Name | File |
|------|------|
| HelloWorld.Me... | /Users/vufanity/COS20007/Code/HelloWorld/HelloWorld/Messag |
| HelloWorld.Main... | /Users/vufanity/COS20007/Code/HelloWorld/HelloWorld/Program.cs: |

0  2  Build: 0 errors, 2 warnings    Errors   Build Output   Tasks   Breakpoints   Test Results   Package Console   Terminal – HelloWorld