

Name: Answer Sheet

Date: 06/02/2016

Quiz name: Module 1: Polymorphism

Score: 100%

-
- ✓ 1. Which choice below best represents a method signature (i.e. header definition)?
- ☐ A The signature of a method is the name of the method a summary of the method description.
 - ☐ B The signature of a method is the name of the method and the names of its parameters.
 - ☐ C The signature of a method is the name of the method and any side effects it may have.
 - ☒ D The signature of a method is the access modifier, the name of the method, its parameter list, and its return type.
 - ☐ E I Don't Know
-
- ✓ 2. What must a class do to use an interface?
- ☐ A Inherit the interface
 - ☐ B Instantiate the interface
 - ☒ C Implement the interface
-
- ✓ 3. A class can implement more than one interface.
- ☒ A True
 - ☐ B False
-
- ✓ 4. Polymorphism allows us to write code that operates in a _____ manner.
- ☐ A Specialized
 - ☒ B Generalized
 - ☐ C Polymorphic
 - ☐ D I don't know
-
- ✓ 5. Interface methods are automatically ...
- ☒ A public
 - ☐ B private
 - ☐ C default
 - ☐ D I don't know
-

```
// #####  
// IGreeting.cs  
// #####
```

```
public interface IGreeting  
{
```

✓ 6.

```

string Greeting { get; }
}

// #####
// English.cs
// #####

public class English : IGreeting
{

    public string Greeting
    {
        get { return "Hello!"; }
    }

}

// #####
// French.cs
// #####

public class French : IGreeting
{

    public string Greeting
    {
        get { return "Bonjour!"; }
    }

}

// #####
// Spanish.cs
// #####

public class Spanish : IGreeting
{

    public string Greeting
    {
        get { return "Hola!"; }
    }

}

// #####
// GreetingDemo.cs
// #####

public class GreetingDemo {

    public static void Main(string[] args)
    {

        IGreeting[] greetings = new IGreeting[3] { new French(), new English(), new Spanish() };

        foreach(IGreeting g in greetings )
        {

```

```

Console.Write( g.Greeting + " " );
}
}
}

```

What is the output displayed by the main method of GreetingDemo when it is executed? (**Pay attention to spaces and Console.Write!**)

Bonjour! Hello! Hola!

```

// #####
// IShape.cs
// #####

```



7.

```

public interface IShape
{

```

```

    double GetArea();
    double GetPerimeter();
}

```

```

// #####
// Rectangle.cs
// #####

```

```

public class Rectangle : IShape {
    private double length;
    private double width;

```

```

    public Rectangle( double length, double width )
    {

```

```

        this.length = length;
        this.width = width;
    }

```

```

    public double GetArea()
    {
        return length * width;
    }
}

```

Select the statement(s) below that are true. (Choose all that apply)

- ☐ A IShape.cs will not compile successfully
- ☒ B Rectangle.cs will not compile successfully
- ☐ C Both files will compile successfully
- ☐ D I Don't Know