

Module 12

Abstract classes

Abstract classes

```
class Book
{
    protected int _currentpage = 1;

    public void NextPage()
    {
        _currentpage++;
    }

    public string Describe() ⇒ $"Book current page = {_currentpage}";
}

class Newspaper
{
    private bool _isopen = true;
    protected int _currentpage = 1;

    public void NextPage()
    {
        _currentpage++;
    }

    public void Fold()
    {
        _isopen = false;
    }

    public string Describe() ⇒ $"Newspaper {(_isopen ? "is open" : "is folded")} and current page = {_currentpage}";
}
```

Abstract classes

```
class LibraryItem
{
    protected int _currentpage = 1;

    public void NextPage()
    {
        _currentpage++;
    }
}

class Book : LibraryItem
{
    public string Describe() ⇒ $"Book current page = {_currentpage}";
}

class Newspaper : LibraryItem
{
    private bool _isopen = true;

    public void Fold()
    {
        _isopen = false;
    }
    public string Describe() ⇒ $"Newspaper {(_isopen ? "is open" : "is folded")} and current page = {_currentpage}";
}
```

Abstract classes

```
abstract class LibraryItem
```

```
{  
    protected int _currentpage = 1;  
  
    public void NextPage()  
    {  
        _currentpage++;  
    }  
  
    abstract public string Describe();  
}
```

```
class Book : LibraryItem
```

```
{  
    public override string Describe() ⇒ $"Book current page = {_currentpage}";  
}
```

```
class Newspaper : LibraryItem
```

```
{  
    private bool _isopen = true;  
  
    public void Fold()  
    {  
        _isopen = false;  
    }  
    public override string Describe() ⇒ $"Newspaper {(_isopen ? "is open" : "is folded")} and current page = {_currentpage}";  
}
```

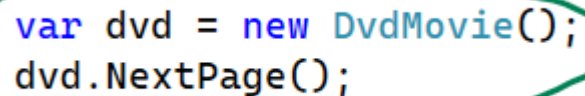
Abstract classes

```
abstract class LibraryItem
{
    protected int _currentpage = 1;

    public void NextPage()
    {
        _currentpage++;
    }

    abstract public string Describe();
}

class DvdMovie : LibraryItem
{
    public override string Describe() ⇒ $"I'm a DVD movie";
}
```



```
var dvd = new DvdMovie();
dvd.NextPage();
```