

```
1
2 namespace Wk5InheritanceExample
3 {
4     class PayDetail
5     {
6         private string _Pay;
7         public string Pay { get { return _Pay; } }
8         public PayDetail(string pay = "UNKNOWN") { _Pay = pay; }
9     }
10 }
```

```
1
2
3 namespace Wk5InheritanceExample
4 {
5     class Person
6     {
7         private string _Name;
8         private PayDetail _Payment;
9
10        public string Name { get { return _Name; } }
11        public PayDetail Payment { get { return _Payment; } }
12
13        public Person(string name, PayDetail pay)
14        {
15            _Name = name;
16            _Payment = pay;
17        }
18
19        public string GetPayDetailInformation() { return _Payment.Pay; }
20
21        public override string ToString()
22        {
23            return _Name;
24        }
25    }
26 }
```

```
1
2
3 namespace Wk5InheritanceExample
4 {
5     class Salary : Person
6     {
7         private decimal _Salary;
8         public decimal AnnualSalary
9         {
10             get { return _Salary; }
11             set { _Salary = value; }
12         }
13
14         public new string GetPayDetailInformation()
15         {
16             return string.Format("{0:c} salary - Weekly Payment: {1:c}",
17                                   _Salary, _Salary/52);
18         }
19
20         public Salary(string name, decimal amount): base(name, new PayDetail
21             ("SALARY PAYMENT"))
22         {
23             _Salary = amount;
24         }
25
26         public override string ToString()
27         {
28             return string.Format("{0} - {1}", base.ToString(),
29                                   GetPayDetailInformation());
30         }
31     }
32 }
```

```
1
2
3 namespace Wk5InheritanceExample
4 {
5     class Wage : Person
6     {
7         private decimal _Rate;
8         public decimal Rate { get { return _Rate; } set { _Rate = value; } }
9
10        public Wage(string name, decimal rate) : base(name, new PayDetail
11            ("Wage Payment"))
12        { _Rate = rate; }
13
14        public new string GetPayDetailInformation()
15        {
16            return string.Format("{0:c} Hour Rate - Weekly Payment: {1:c}",
17                _Rate, _Rate * 36 );
18        }
19
20        public override string ToString()
21        {
22            return string.Format("{0} - {1}", base.ToString(),
23                GetPayDetailInformation());
24        }
25    }
26 }
```

```
1 using System;
2 using System.Collections.Generic;
3
4 namespace Wk5InheritanceExample
5 {
6     class Program
7     {
8         static void Main(string[] args)
9         {
10             List<Person> Employee = new List<Person>();
11
12             Employee.Add(new Salary("Benita", 60000m));
13             Employee.Add(new Wage("Travis", 25m));
14
15
16             Console.WriteLine("\nEmployee List:");
17             foreach (Person emp in Employee)
18                 if (emp != null) Console.WriteLine("\t{0}", emp);
19         }
20     }
21 }
22
```