```
1 namespace RepasoCurso
 2
   {
 3
        public enum GenderType
 4
 5
            MALE,
 6
            FEMALE,
 7
            NONBINARY
 8
        }
 9
10
        public class Persona
11
12
            private string _name;
13
            private int _age;
            private string _DNI;
14
            private GenderType _gender;
15
            private double _weight;
16
            private double _height;
17
18
19
            public Persona()
20
                _gender = GenderType.NONBINARY;
21
22
            }
23
24
            public Persona(string name, int age, GenderType gender)
25
26
                _name = name;
27
                _age = age;
28
                _gender = gender;
            }
29
30
            public Persona(string name, int age, GenderType gender, string →
31
              DNI, double weight, double height)
32
33
                _name = name;
34
                _age = age;
35
                _gender = gender;
                _DNI = DNI;
36
37
                //_DNI = GenerateDNI();
38
                _weight = weight;
39
                _height = height;
            }
40
41
42
            public string GetName()
43
            {
44
                return _name;
45
46
47
            public void SetName(string name)
48
49
                _name = name;
50
            }
51
52
            public string Name
```

```
... Programacion\00-RepasoCurso\RepasoCurso\Persona.cs
```

```
2
```

```
53
54
                 get
 55
                 {
 56
                     return _name;
                 }
 57
 58
                 set
 59
                 {
60
                     _name = value;
                 }
 61
62
             }
63
64
             public string GetDNI()
 65
 66
                 return _DNI;
 67
             }
 68
             public string DNI => _DNI;
 69
70
71
             public double CalculateIMC()
72
73
                 return _weight / (_height * _height);
74
             }
75
             public bool IsMajorAge()
76
77
78
                 return _age >= 18;
             }
79
80
             public bool IsCorrectGender(GenderType gender)
 81
82
 83
                 return _gender == gender;
 84
 85
             public override string ToString()
86
 87
                 return $"{Name} {DNI}";
 88
             }
 89
 90
91
             private string GenerateDNI()
 92
93
                 Random random = new Random();
 94
                 int numberDNI = random.Next(99999999);
95
                 int letter = numberDNI % 23;
96
 97
                 char letterDNI = GetDNILetter(letter);
98
                 return "" + numberDNI + letterDNI;
99
100
             }
101
             private char GetDNILetter(int module)
102
103
104
                 char result = ' ';
                 switch (module)
105
```

```
... Programacion\00-RepasoCurso\RepasoCurso\Persona.cs
106
                 {
                     case 0:
107
108
                         result = 'T';
109
                         break;
                     default:
110
111
                         result = 'J';
112
                         break;
113
                 }
114
                return result;
115
            }
116
        }
117 }
```