```java
1    /*
2     * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
      change this license
3     * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this
      template
4     */
5    package proyecto06.herencia;
6
7    /**
8     *
9     * @author miguel.guanira
10    */
11   public class Circulo {
12       private String identificacion;
13       private double radio;
14       private final double PI = 3.141592;
15
16       public Circulo(String identificacion, double radio){
17           this.identificacion = identificacion;
18           this.radio = radio;
19       }
20
21       /**
22        * @return the identificacion
23        */
24       public String getIdentificacion() {
25           return identificacion;
26       }
27
28       /**
29        * @param identificacion the identificacion to set
30        */
31       public void setIdentificacion(String identificacion) {
32           this.identificacion = identificacion;
33       }
34
35       /**
36        * @return the radio
37        */
38       public double getRadio() {
39           return radio;
40       }
41
42       /**
43        * @param radio the radio to set
44        */
45       public void setRadio(double radio) {
46           this.radio = radio;
47       }
48
49       public double area(){
50           return PI*radio*radio;
51       }
52
53       public double perimetro(){
54           return 2*PI*radio;
55       }
56
57       public void imprimeResultados(){
58           System.out.printf("ID   : %s\n",identificacion);
59           System.out.printf("Radio: %10.2f\n",radio);
60           System.out.printf("Area : %10.2f\n",area());
61           System.out.printf("Perim: %10.2f\n",perimetro());
62       }
63   }
64
```

```java
65   /*
66    * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
      change this license
67    * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this
      template
68    */
69   package proyecto06.herencia;
70
71   /**
72    *
73    * @author miguel.guanira
74    */
75   public class Cilindro extends Circulo{
76       private double altura;
77
78       public Cilindro(String identificacion, double radio,
79                       double altura){
80           super(identificacion,radio);
81           this.altura = altura;
82       }
83
84       /**
85        * @return the altura
86        */
87       public double getAltura() {
88           return altura;
89       }
90
91       /**
92        * @param altura the altura to set
93        */
94       public void setAltura(double altura) {
95           this.altura = altura;
96       }
97
98       @Override
99       public double area(){ //Area de la superficie
100          return 2*super.area() + perimetro()*altura;
101      }
102
103      public double areaDeLaBase(){
104          return super.area();
105      }
106
107      public double volumen(){
108          return super.area()*altura;
109      }
110
111      @Override
112      public void imprimeResultados(){
113          super.imprimeResultados();
114          System.out.printf("Altura: %10.2f\n",altura);
115          System.out.printf("Superf: %10.2f\n",area());
116          System.out.printf("AreaB: %10.2f\n",areaDeLaBase());
117          System.out.printf("Volumen: %10.2f\n",volumen());
118      }
119  }
120
121  /*
122   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
     change this license
123   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this
     template
124   */
125  package proyecto06.herencia;
126
```

```java
127  /**
128   *
129   * @author miguel.guanira
130   */
131  public class Proyecto06Herencia {
132
133      /**
134       * @param args the command line arguments
135       */
136      public static void main(String[] args) {
137          // TODO code application logic here
138  //        Circulo circulo1 = new Circulo("Circulo A",56.76);
139  //        circulo1.imprimeResultados();
140
141          System.out.println();
142          Cilindro cilindro = new Cilindro("Cilindro1",6.84,2.65);
143          cilindro.imprimeResultados();
144
145      }
146
147  }
148
```