

Class NumberedBird

[java.lang.Object](#)

└─ [NumberedBird](#)

```
public class NumberedBird
extends Object
```

A warm-blooded egg-laying vertebrate of the class *Aves*, characterized by a body covering of feathers and forelimbs modified as wings ([Definition of bird](#) retrieved 2013-04-29).

Version:

1.1 2013-04-29

Author:

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Constructor Summary

[NumberedBird](#)()

Constructs a bird with default characteristics.

[NumberedBird](#)(boolean canFly)

Constructs a bird with the specified flying ability.

[NumberedBird](#)(double wingspan)

Constructs a bird with the specified wingspan.

[NumberedBird](#)(double wingspan, boolean canFly)

Constructs a bird with the specified wingspan and flying ability.

[NumberedBird](#)([String](#) colour)

Constructs a bird with the specified colour.

[NumberedBird](#)([String](#) colour, boolean canFly)

Constructs a bird with the specified colour and flying ability.

[NumberedBird](#)([String](#) colour, double wingspan)

Constructs a bird with the specified colour and wingspan.

[NumberedBird](#)([String](#) colour, double wingspan, boolean canFly)

Constructs a bird with the specified characteristics.

Method Summary

boolean [ableToFly](#)()

	Returns true if this bird can fly; otherwise false.
String	getColour() Returns the colour of this bird.
int	getSerialNumber() Returns the serial number of this bird.
double	getWingspan() Returns the wingspan in centimetres of this bird.
void	setColour(String colour) Sets the colour of this bird.
void	setFlightAbility (boolean canFly) Sets the flight ability of this bird.
void	setWingspan (double wingspan) Sets the wingspan in centimetres of this bird.
String	toString() Returns a string representation of this bird.

Methods inherited from class [java.lang.Object](#)
[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

Constructor Detail

NumberedBird

public `NumberedBird()`

Constructs a bird with default characteristics.

NumberedBird

public `NumberedBird(boolean canFly)`

Constructs a bird with the specified flying ability.

Parameters:

canFly - true if this bird can fly; otherwise false

NumberedBird

public `NumberedBird(double wingspan)`

Constructs a bird with the specified wingspan.

Parameters:

wingspan - the non-negative wingspan in centimetres of this bird

NumberedBird

```
public NumberedBird(double wingspan,  
                    boolean canFly)
```

Constructs a bird with the specified wingspan and flying ability.

Parameters:

wingspan - the non-negative wingspan in centimetres of this bird
canFly - true if this bird can fly; otherwise false

NumberedBird

```
public NumberedBird(String colour)
```

Constructs a bird with the specified colour.

Parameters:

colour - the colour of this bird

NumberedBird

```
public NumberedBird(String colour,  
                    boolean canFly)
```

Constructs a bird with the specified colour and flying ability.

Parameters:

colour - the colour of this bird
canFly - true if this bird can fly; otherwise false

NumberedBird

```
public NumberedBird(String colour,  
                    double wingspan)
```

Constructs a bird with the specified colour and wingspan.

Parameters:

colour - the colour of this bird
wingspan - the non-negative wingspan in centimetres of this bird

NumberedBird

```
public NumberedBird(String colour,  
                   double wingspan,  
                   boolean canFly)
```

Constructs a bird with the specified characteristics.

Parameters:

colour - the colour of this bird

wingspan - the non-negative wingspan in centimetres of this bird

canFly - true if this bird can fly; otherwise false

Method Detail

ableToFly

```
public boolean ableToFly()
```

Returns true if this bird can fly; otherwise false.

Returns:

true if this bird can fly; otherwise false

getColour

```
public String getColour()
```

Returns the colour of this bird.

Returns:

the colour of this bird

getSerialNumber

```
public int getSerialNumber()
```

Returns the serial number of this bird.

Returns:

the serial number of this bird

getWingspan

```
public double getWingspan()
```

Returns the wingspan in centimetres of this bird.

Returns:

the wingspan in centimetres of this bird

setColour

```
public void setColour(String colour)
```

Sets the colour of this bird.

Parameters:

colour - the colour of this bird; may not be an empty string

setFlightAbility

```
public void setFlightAbility(boolean canFly)
```

Sets the flight ability of this bird.

Parameters:

canFly - true if this bird can fly; otherwise false

setWingspan

```
public void setWingspan(double wingspan)
```

Sets the wingspan in centimetres of this bird.

Parameters:

wingspan - the non-negative wingspan in centimetres

toString

```
public String toString()
```

Returns a string representation of this bird.

Overrides:

[toString](#) in class [Object](#)

Returns:

a string representation of this bird

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