Anonymous Class Implementing Abstract Class:

Write a Java program to create an abstract class called Animal with an abstract method makeSound(). In the main method, create an anonymous class that extends Animal and override the makeSound() method to print "Meow" for a cat. Call the makeSound() method.

Sample Solution:

Java Code:

Animal.java

```java
// Abstract class Animal with an abstract method makeSound
abstract class Animal {
    // Abstract method makeSound
    abstract void makeSound();
}
```

Main.java

```java
// Main class to demonstrate anonymous class
public class Main {
    // Main method
    public static void main(String[] args) {
        // Creating an anonymous class that extends Animal and overrides ma
        Animal cat = new Animal() {
            // Overriding the makeSound method
            @Override
            void makeSound() {
                System.out.println("Meow");
            }
        };

        // Calling the makeSound method
        cat.makeSound();
    }
}
```

Output:

Meow

Explanation: