



Dasari Vamsi

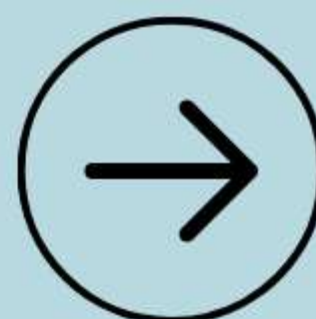
Java Developer

# Java Sealed Classes



Controlling  
Inheritance with  
Precision

[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)





Dasari Vamsi

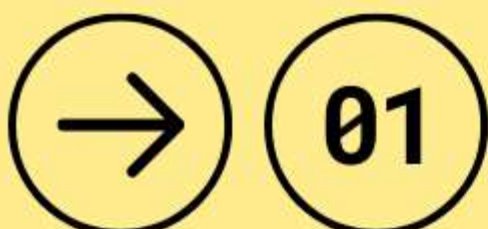
Java Developer

# Too Many Extensions! 🙄

Traditional classes can be extended by anyone (unless marked final).

This can lead to:

- Unwanted hierarchies
- Fragile designs
- Security concerns



[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)



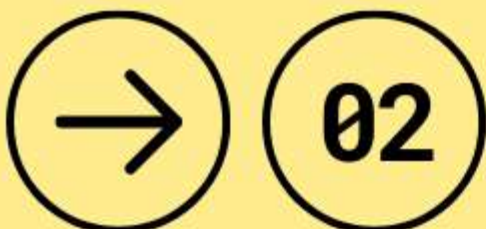
Dasari Vamsi

Java Developer

# Enter Sealed Classes (Java 17) ✨

```
public sealed class Shape  
    permits Circle, Rectangle {}
```

Only the permitted classes can extend Shape.



[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)





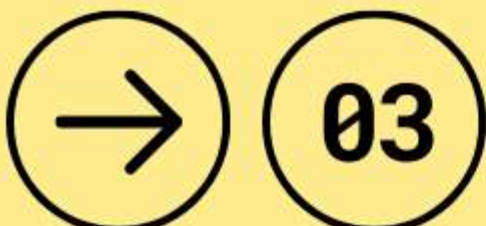
# Sealed Class Example



```
sealed class Vehicle  
    permits Car, Bike {}
```

```
final class Car extends Vehicle {}  
final class Bike extends Vehicle {}
```

👉 No other class can extend Vehicle



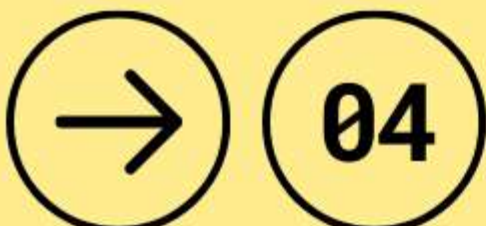


Dasari Vamsi

Java Developer

# Why Use Sealed Classes?

- Restrict inheritance to known types
- Improve API safety
- Enhance domain modeling
- Works great with pattern matching



[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)



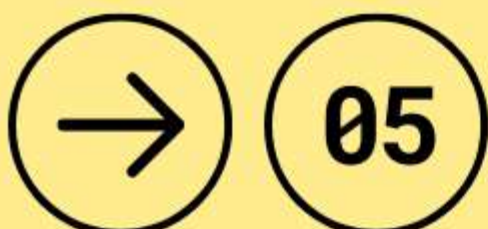


Dasari Vamsi

Java Developer

# Final vs Abstract vs Sealed

- `final`: No one can extend
- `abstract`: Anyone can extend
- `sealed`: Only specific classes can extend



[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)



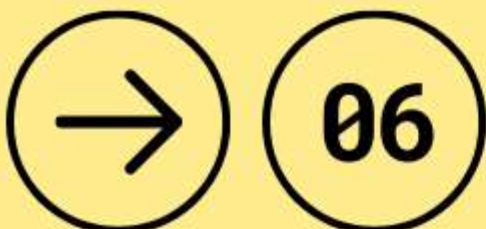
Dasari Vamsi

Java Developer

# ✓ Quick Recap

- Sealed = controlled inheritance
- Improves design & security
- Best for domain-driven models

💬 Have you tried Sealed Classes in your projects yet?



[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)



Dasari Vamsi

Java Developer

**If you find  
this helpful,  
like and share  
it with your  
friends**



**Let's Connected**  
[dasarivamsi.netlify.app](https://dasarivamsi.netlify.app)