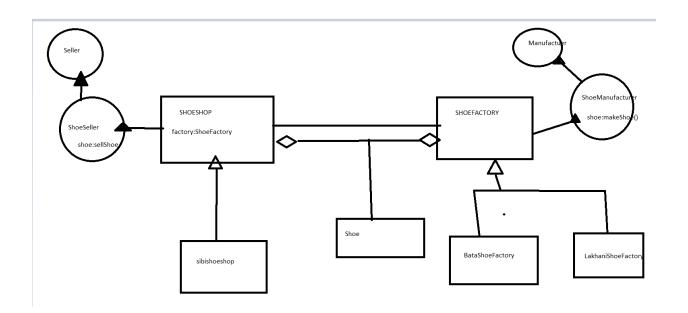
Day 9



Interface

• Represented by Circle



Exception Handling

- System
 - JAVA throw
 - Unchecked (Runtime)
 - try/catch/finally Should be avoided
 - Checked

•

Bothe should be avoided

•

Custom

User throw

```
package ga.veee.day9;

public class ExceptionDemo {
    public static void main(String[] args) {
        System.out.println("before exception ");
        try {
            int i = 1 / Integer.parseInt(args[0]);

        } catch (ArithmeticException e) {
            System.out.println("Number is zero..:" + e);
        } catch (NumberFormatException ne) {
            System.out.println("Number is a character..:" + ne);
        } catch (ArrayIndexOutOfBoundsException ex) {
            System.out.println("unknown exception....." + ex);
        }
        System.out.println("after exception..");
    }
}
```

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https://fluvid.com/videos/detail/AZX-wTrMq-CmVkG4R#.YFMBj51fJ8s.link

Checked Exception

```
yes = true;
}

if (yes) {
    Field fields = s.getClass().getField("str");
} else {
    System.out.println("Field not there");
}
}
```

Custom Exception

throw - Explicit

throws - Bypass

Visitor Pattern

```
package ga.veee.day9;
import java.util.Scanner;
public class ExceptionHandlingDemo {
    public static void main(String[] args) throws Exception {
        Dog dog = new Dog();
        Child child = new Child();
        Scanner scan = new Scanner(System.in);
        System.out.println("Please enter the item class..:");
        String itemClass = scan.next();
        Item ic = (Item) Class.forName(itemClass).getConstructor().newInstance();
        child.playWithDog(dog, ic);
abstract class DogExceptions extends Exception {
    public abstract void visit(Handler911 handler911);
class DogBiteException extends DogExceptions {
    String msg;
    public DogBiteException(String msg) {
        this.msg = msg;
    @Override
    public String toString() {
       return this.msg;
    @Override
    public void visit(Handler911 handler911) {
        handler911.handle(this);
```

Day 9

```
class DogBarkException extends DogExceptions {
   String msg;
   public DogBarkException(String msg) {
       this.msg = msg;
   @Override
   public String toString() {
       return this.msg;
   @Override
   public void visit(Handler911 handler911) {
        handler911.handle(this);
class DogHappyException extends DogExceptions {
   String msg;
   public DogHappyException(String msg) {
        this.msg = msg;
   @Override
   public String toString() {
       return this msg;
   @Override
   public void visit(Handler911 handler911) {
       handler911.handle(this);
abstract class Item {
   public Item() {
       // TODO Auto-generated constructor stub
   public abstract void execute() throws DogExceptions;
}
class StickItem extends Item {
   public StickItem() {
      // TODO Auto-generated constructor stub
   @Override
   public void execute() throws DogExceptions {
        throw new DogBiteException("you beat i bite.....");
```

```
class StoneItem extends Item {
   public StoneItem() {
       // TODO Auto-generated constructor stub
   @Override
   public void execute() throws DogExceptions {
       throw new DogBarkException("you throw I bark....");
//ga.veee.day9.BiscuitItem
class BiscuitItem extends Item {
   public BiscuitItem() {
       // TODO Auto-generated constructor stub
   @Override
   public void execute() throws DogExceptions {
       throw new DogHappyException("I love biscuits.....");
class Dog {
   public void play(Item item) throws DogExceptions {
        item.execute();
class Child {
   public void playWithDog(Dog dog, Item item) {
        try {
            dog.play(item);
       } catch (DogExceptions de) {
           de.visit(new Handler911Impl());
   }
//To handle exception - you should write a seperate handler class
interface Handler911 {
   public void handle(DogBiteException dbe);
   public void handle(DogBarkException dre);
   public void handle(DogHappyException dre);
}
class Handler911Impl implements Handler911 {
   @Override
   public void handle(DogBarkException dre) {
        System.out.println("handling logic is written....dont worry...it is just barking.....");
   @Override
```

```
public void handle(DogBiteException dbe) {
        System.out.println("ambulance is on the way......dont be panic.....");
}

@Override
public void handle(DogHappyException dhe) {
        System.out.println("the dog is happy,, enjoying the biscuits.....");
}
```

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