

Writing a program in Java to demonstrate the **throw** keyword

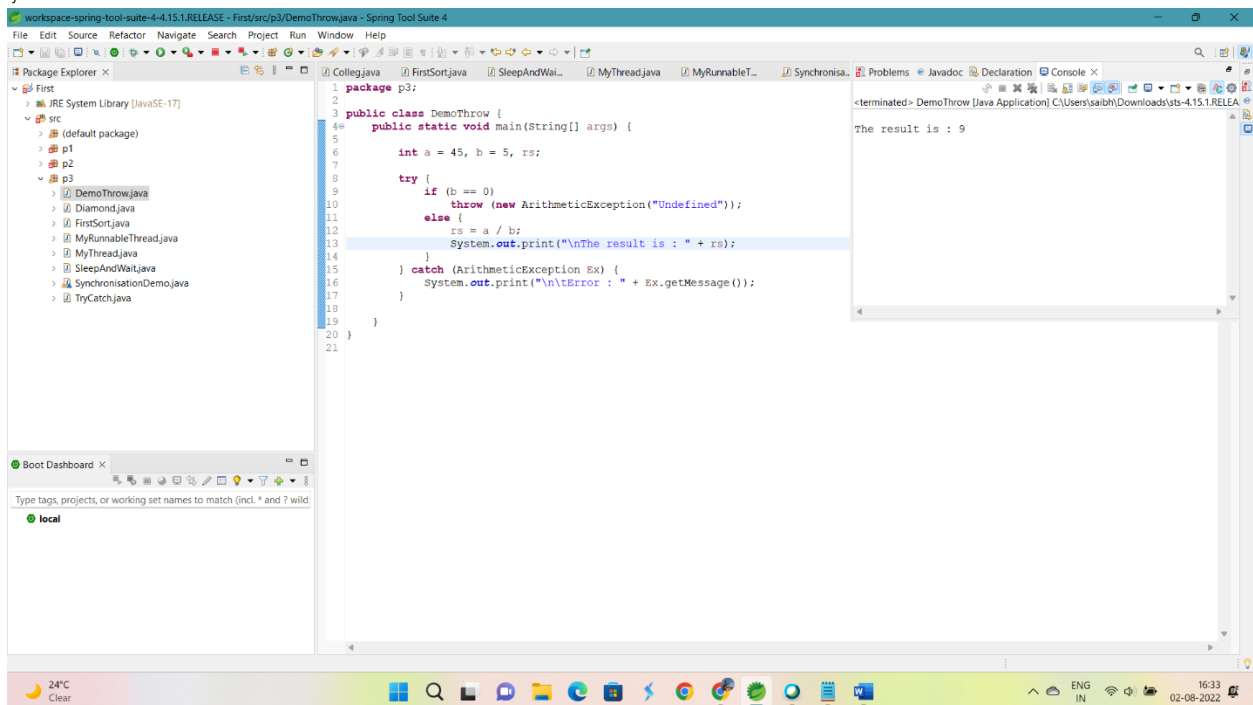
```
package p3;

public class DemoThrow {
    public static void main(String[] args) {

        int a = 45, b = 5, rs;

        try {
            if (b == 0)
                throw (new ArithmeticException("Undefined"));
            else {
                rs = a / b;
                System.out.print("\nThe result is : " + rs);
            }
        } catch (ArithmeticException Ex) {
            System.out.print("\n\tError : " + Ex.getMessage());
        }

    }
}
```



Writing a program in Java to demonstrate the **throws** keyword

Select your project and go to File -> New -> Class.

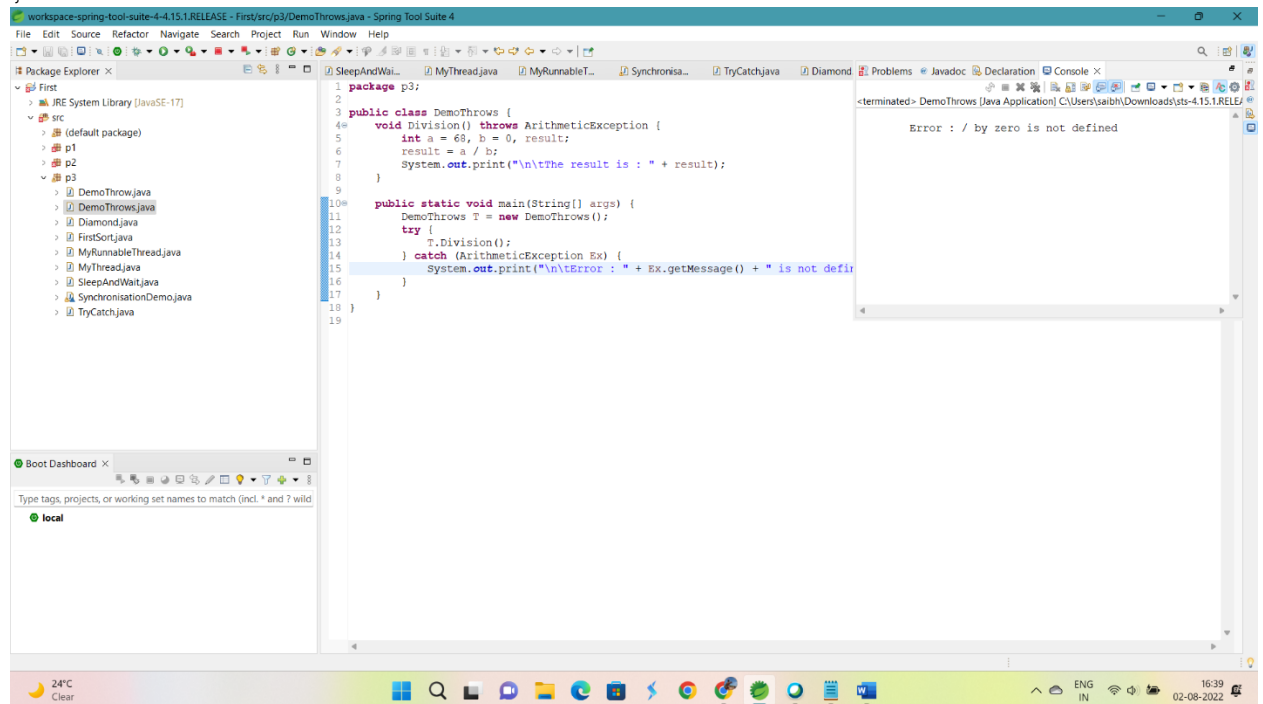
```
package p3;
```

```

public class DemoThrows {
    void Division() throws ArithmeticException {
        int a = 68, b = 0, result;
        result = a / b;
        System.out.print("\n\tThe result is : " + result);
    }

    public static void main(String[] args) {
        DemoThrows T = new DemoThrows();
        try {
            T.Division();
        } catch (ArithmeticException Ex) {
            System.out.print("\n\tError : " + Ex.getMessage() + "
is not defined");
        }
    }
}

```



Writing a program in Java to demonstrate the **finally** keyword

```

package p3;

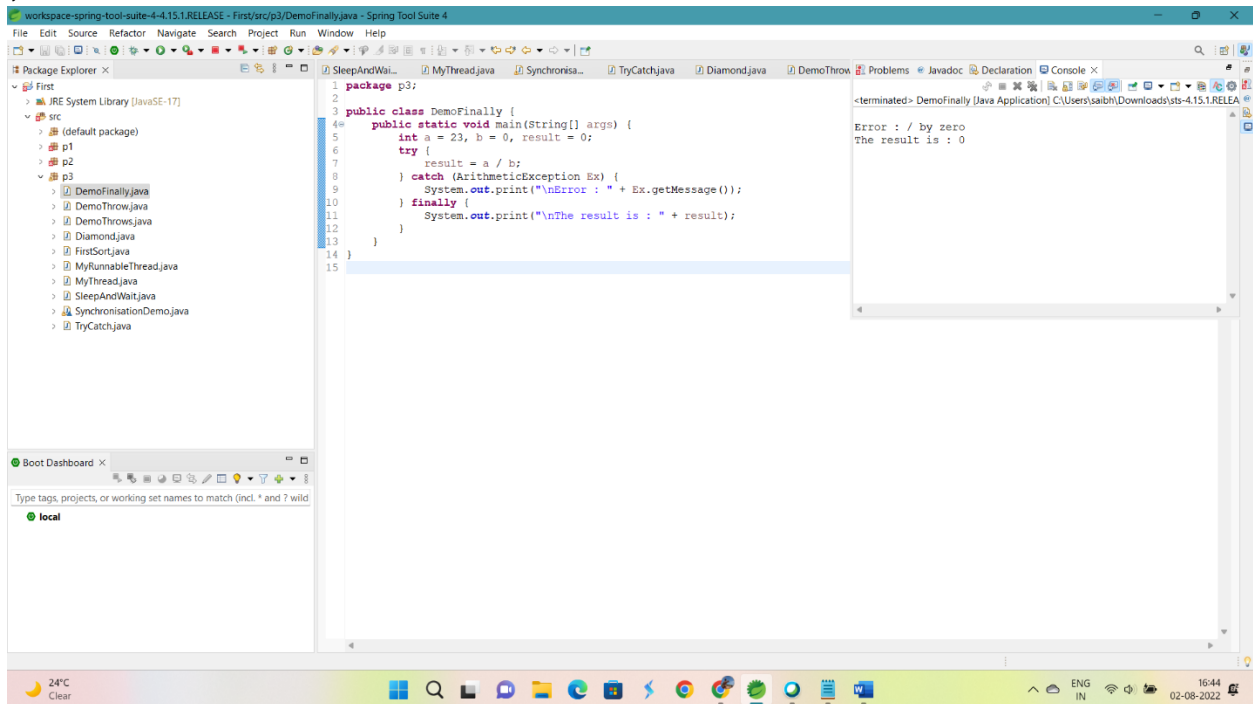
public class DemoFinally {
    public static void main(String[] args) {
        int a = 23, b = 0, result = 0;
        try {
            result = a / b;
        } catch (ArithmeticException Ex) {
            System.out.print("\nError : " + Ex.getMessage());
        }
    }
}

```

```

    } finally {
        System.out.print("\nThe result is : " + result);
    }
}

```



Writing a program in Java to demonstrate custom exceptions

```

package p3;

class DemoCust extends Exception {
    public DemoCust(String s) {
        super(s);
    }

    public static void main(String args[]) {
        try {
            throw new DemoCust("temp");
        } catch (DemoCust ex) {
            System.out.println("Caught");
            System.out.println(ex.getMessage());
        }
    }
}

```

