

```

import java.util.Scanner;
public class TryCatchFinally {
    public static int unavoid(){
        Scanner sc = new Scanner(System.in);
        int num1, num2;
        System.out.print("Enter 1st number: ");
        num1 = sc.nextInt();
        System.out.print("Enter 2nd number: ");
        num2 = sc.nextInt();
        try{
            sc.close();
            return num1 / num2;
        }
        catch(Exception e){
            System.out.println("Exception Occured: "+e);
        }
        finally{
            System.out.println("Exception or Not");
            System.out.println("This finally block is going to execute.");
        }
        System.out.println("Not");
        sc.close();
        return 0;
    }
    public static void main(String args[]){
        int res;
        res = unavoid();
        System.out.println("Division: "+res);
    }
}

```

```

Command Prompt
Caused by: java.lang.NoClassDefFoundError: Practical_No23/TryCatchFinally (wrong name: TryCatchFinally)

D:\Academics\Semester 4\Test>javac TryCatchFinally.java

D:\Academics\Semester 4\Test>java TryCatchFinally
Enter 1st number: 20
Enter 2nd number: 0
Exception Occured: java.lang.ArithmeticException: / by zero
Exception or Not
This finally block is going to execute.
Not
Division: 0
D:\Academics\Semester 4\Test>

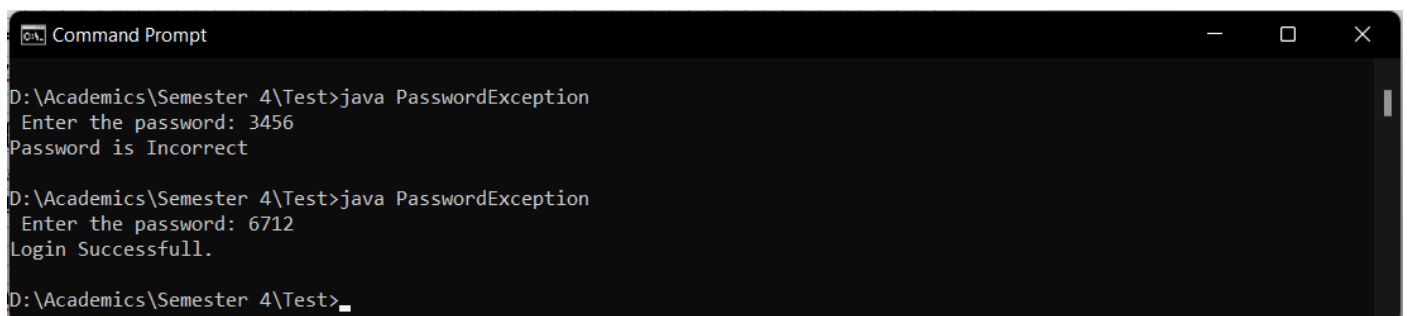
```

```

import java.util.Scanner;
class AuthenticationFailure extends Exception{
    @Override
    public String toString(){
        return "Password is Incorrect";
    }
}

public class PasswordException {
    private static final int pass = 6712;
    public static void main(String args[]){
        int ip;
        Scanner sc = new Scanner(System.in);
        System.out.print(" Enter the password: ");
        ip = sc.nextInt();
        try{
            if(ip == pass){
                System.out.println("Login Successfull.");
            }
            else{
                sc.close();
                throw new AuthenticationFailure();
            }
        }
        catch(AuthenticationFailure e){
            System.out.println(e);
        }
        sc.close();
    }
}

```



```

C:\> Command Prompt

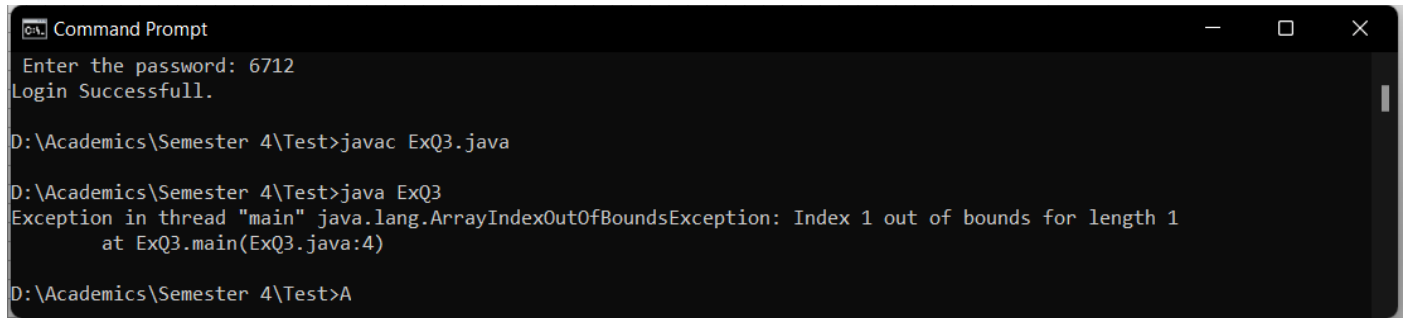
D:\Academics\Semester 4\Test>java PasswordException
Enter the password: 3456
Password is Incorrect

D:\Academics\Semester 4\Test>java PasswordException
Enter the password: 6712
Login Successfull.

D:\Academics\Semester 4\Test>

```

```
public class ExQ3 {  
    public static void main(String args[]){  
        Integer[][] ints = {{1,2,3},{null},{7,8,9}};  
        System.out.println("value= "+ints[1][1].intValue());  
    }  
}
```



```
Command Prompt  
Enter the password: 6712  
Login Successfull.  
  
D:\Academics\Semester 4\Test>javac ExQ3.java  
  
D:\Academics\Semester 4\Test>java ExQ3  
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 1 out of bounds for length 1  
    at ExQ3.main(ExQ3.java:4)  
  
D:\Academics\Semester 4\Test>A
```