

java practic

Windows PowerShell

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```
PS D:\java practic> javac InvariantsExample.java
PS D:\java practic> java InvariantsExample
PS D:\java practic>
```

File Name	Modified	Type	Size
addition.class	12-11-2024 22:39	CLASS File	1 KB
addition.java	12-11-2024 22:37	JAVA File	1 KB
breakpoint.java	12-11-2024 22:29	JAVA File	1 KB
breakpoint.class	12-11-2024 22:27	CLASS File	1 KB
packages	22-12-2024 18:15	File folder	
JavaBank.java	23-12-2024 17:15	JAVA File	3 KB
JavaBank\$CreateButtonListener.class	23-12-2024 17:16	CLASS File	3 KB
JavaBank.class	23-12-2024 17:16	CLASS File	3 KB
AssertExample.java	23-12-2024 17:18	JAVA File	1 KB
AssertExample.class	23-12-2024 17:19	CLASS File	2 KB
InvariantsExample.java	23-12-2024 17:23	JAVA File	1 KB

149 items

AssertExamp InvariantsEx Invari

File Edit View

```
public class InvariantsExample {
    public static void main(String[] args) {
        String suit = "Card";

        switch (suit) {
            case "Clubs":
                System.out.println("Clubs");
                break;
            case "Diamonds":
                System.out.println("Diamonds");
                break;
            case "Hearts":
                System.out.println("Hearts");
                break;
            case "Spades":
                System.out.println("Spades");
                break;
            default:
                assert false : "Unknown playing card suit";
        }
    }
}
```

Ln 23, Col 1 | 618 characters | 100% | Windows (CRLF) | UTF-8

File Explorer window showing the directory structure of 'java practic' on 'New Volume (D:)'. The files listed are:

Name	Date modified	Type	Size
AddCharactersToString.class	23-11-2024 10:22	CLASS File	2 KB
AddCharactersToString.java	23-11-2024 10:21	JAVA File	1 KB
breakpoint.class	12-11-2024 22:27	CLASS File	1 KB
packages	22-12-2024 18:15	File folder	
JavaBank.java	23-12-2024 17:15	JAVA File	3 KB
JavaBank\$CreateButtonListener.class	23-12-2024 17:16	CLASS File	3 KB
JavaBank.class	23-12-2024 17:16	CLASS File	3 KB
AssertExample.java	23-12-2024 17:16	JAVA File	1 KB

A Windows PowerShell window is open, showing the execution of the following commands:

```
PS D:\java practic> javacAssertExample.java
javacAssertExample.java : The term 'javacAssertExample.java' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ javacAssertExample.java
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (javacAssertExample.java:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS D:\java practic> javac AssertExample.java
PS D:\java practic> java AssertExample
Please enter a number: 23
Converted value: 23
PS D:\java practic>
```

Code editor window showing the source code of 'AssertExample.java'.

```
import java.util.Scanner;

public class AssertExample {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);

        try {
            System.out.print("Please enter a number: ");
            double x = in.nextDouble();
            assert x < 2_147_483_647.0 : "Number too large to convert to integer";

            int y = (int) x;
            System.out.println("Converted value: " + y);
        } catch (Exception ex) {
            System.out.println("Error occurred: " + ex.getMessage());
        } finally {
            in.close();
        }
    }
}
```

Zoom

Ln 16, Col 20 593 characters 100% Windows (CRLF) UTF-8

File Explorer window showing the contents of the 'java practic' folder. The folder contains various Java files and class files, including 'EnumToStringExample.java', 'IterateCharacters.class', 'IterateCharacters.java', 'AddCharactersToString.class', 'AddCharactersToString.java', 'NewLineInString.class', 'NewLineInString.java', 'ReverseString.class', 'ReverseString.java', 'AnagramCheck.class', 'PalindromeCheck.class', 'PalindromeCheck.java', 'InsertString.class', 'InsertString.java', 'evenlength.class', 'evenlength.java', 'useradd.class', 'useradd.java', 'Test1.java', 'Customer.class', 'Student.java', 'Customer.java', 'helloworld.java', 'helloworld.class', 'addition.class', 'addition.java', 'breakpoint.java', 'breakpoint.class', 'packages', and 'JavaBank.java'.

A message dialog box is displayed in the center of the window, showing the following information:

Message

Account Created:
Name: santhi
Account Number: 1923112258
Balance: 1000000

OK

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class JavaBank {
    private JTextField nameJTextField, accountNumJTextField,
    balanceJTextField;
    private JButton createButton;

    public JavaBank() {
        JFrame frame = new JFrame("JavaBank");
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(400, 300);
        frame.setLayout(new GridLayout(4, 2));

        JLabel nameLabel = new JLabel("Name:");
        nameJTextField = new JTextField();
        JLabel accountNumLabel = new JLabel("Account Number:");
        accountNumJTextField = new JTextField();
        JLabel balanceLabel = new JLabel("Balance:");
        balanceJTextField = new JTextField();
    }
}
```

Ln 20, Col 54 | 2,870 characters | 100% | Windows (CRLF) | UTF-8

Windows PowerShell

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```
PS D:\java practic> javac JavaBank.java
PS D:\java practic> java JavaBank
```