

PROJECT 2 :FILE CONVERSION

Company Logo to be placed here



Varcons Technologies Pvt Ltd

Varcons Technologies Pvt Ltd

NAME: SYEDA AYESHA TABASSUM

USN: 3PG20CS050

E-MAIL: syedaayeshaneet@gmail.com

NAME: TARUN SANAG R

USN: 4NN19EE022

E-MAIL: tarunsanag3@gmail.com

ACKNOWLEDGEMENT

While I was making this project , a lot of information that I found helped me in chapter and I am glad that I was able to complete this project and was able to understand many things.

It gave me an immense pleasure while doing this project because it was not just a project but , a source to learn not just about chapter but also I inculcated many qualities like responsibility , punctuality , confidence and what not.

The journey of making this project was so nice and in all this my teachers who supported me all the time , cleared my doubts and the parents support also played a big role and my friends too helped me . I thank to all of them and wish that they keep supporting me like this.

Doing work on time is something everyone needs to learn and through this project I have improved my timing and also it made my thinking skills better .

A project is a bridge between theoretical and practical learning and with this thinking I worked on the project and made it successful due to timely support and efforts of all who helped me.

Once again thank you Sir/Ma'am to give me this project and to make me learn so many things .I have no more valuable words to express my thanks , but my heart is still full of favour received from every person.

ABOUT THE COMPANY:

Varcons Technologies Pvt Ltd is a digital service provider that aims to provide software, designing and marketing solutions to individuals and businesses. At VCT, we believe that service and quality is the key to success.

We provide all kinds of technological and designing solutions from Billing Software to Web Designs or any custom demand that you may have. Experience the service like none other!

Some of our services include:

Development - We develop responsive, functional and super-fast websites. We keep User Experience in mind while creating websites. A website should load quickly and should be accessible even on a small view-port and slow internet connection, We develop sophisticated customisable softwares using Java and other programming Languages as per the clients needs'

Mobile Application - We offer a wide range of professional android, iOS & Hybrid app development services for our global clients, from a start up to a large enterprise.

Design - We offer professional Graphic design, Brochure design & Logo design. We are experts in crafting visual content to convey the right message to the customers.

Consultancy - We are here to provide you with expert advice on your design and development requirement.

Videos - We create a polished professional video that impresses your audience

INDEX

NO.S	TITLE	PAGE NO.
1	Brief overview on project	01
2	Advantages and challenges while completing project	02-03
3	Software and hardware requiement for project	04
4	Implementation of project	05-07
5	Conclusion	08
6	Bibliography	09-10

A BRIEF OVERVIEW ON THE PROJECT:

This Java project is a general-purpose, concurrent, class-based, object- oriented computer programming language that is specifically designed to have as few implementation dependencies as possible and it helps to learn how to define and call the function in code.

It is intended to let application developers "write once, run anywhere" (WORA), meaning that code that runs on one platform does not need to be recompiled to run on another and from doing this project we get know about class must allow the objects to cooperate during the execution.

2.ADVANTAGES AND CHALLENGES WHILE COMPLETING THE PROJECT

Advantages:

1. Modern industries are swamped with data and so, there is immense value in processing and analyzing the data to generate insights from it. Uncovering actionable insights provided enormous value to the project by stimulating creative ideas.
2. The data being used in the model can be collected from various sources and stored in variable formats can greatly impact the space requirements, cost and the performance of the project.
3. CSV files store data in a simple and easy to read manner, these can be opened using pretty much any piece of software, even plain text editors.
4. To build a successful project, you need to have a clear understanding of what you are asked to build and how you can utilize the data at hand in order to design a solid solution, which was indeed provided during these internship which helped us a lot.

Project Name

Challenges:

1. when you are delving into data science, most of your time will be utilized in deriving value from data and using it to build machine learning and deep learning models.
2. There are several considerations that need to be taken into account when trying to determine the data format.
3. CSVs are simple in nature, hence simple to parse and split (just break on comma to convert to column). Although there is a significant potential for data loss or data corruption if the application receiving CSV input isn't the same application that created it.
4. An important point to remember is that CSV is not a standardized format. This means that a file may be in the CSV format, but not necessarily will be read properly by the CSV parser used in your project.
5. A JSON file by default is larger and more flexible. So, it is more complicated to parse and split. JSON is loaded and parsed into memory and hence depending upon the size, can take up a lot of disk space.
6. CSV is easier to parse than JSON and is therefore potentially faster to write.

SOFTWARE AND HARDWARE REQUIRMENTS FOR JAVA PROJECT :

Hardware Requirement for Java :

Minimum hardware requirement to download Java on your Windows operating system as follows:

- Minimum Windows 95 software
- IBM-compatible 486 system
- Hard Drive and Minimum of 8 MB memory
- A CD-ROM drive
- Mouse, keyboard and sound card

Software requirement for Java :

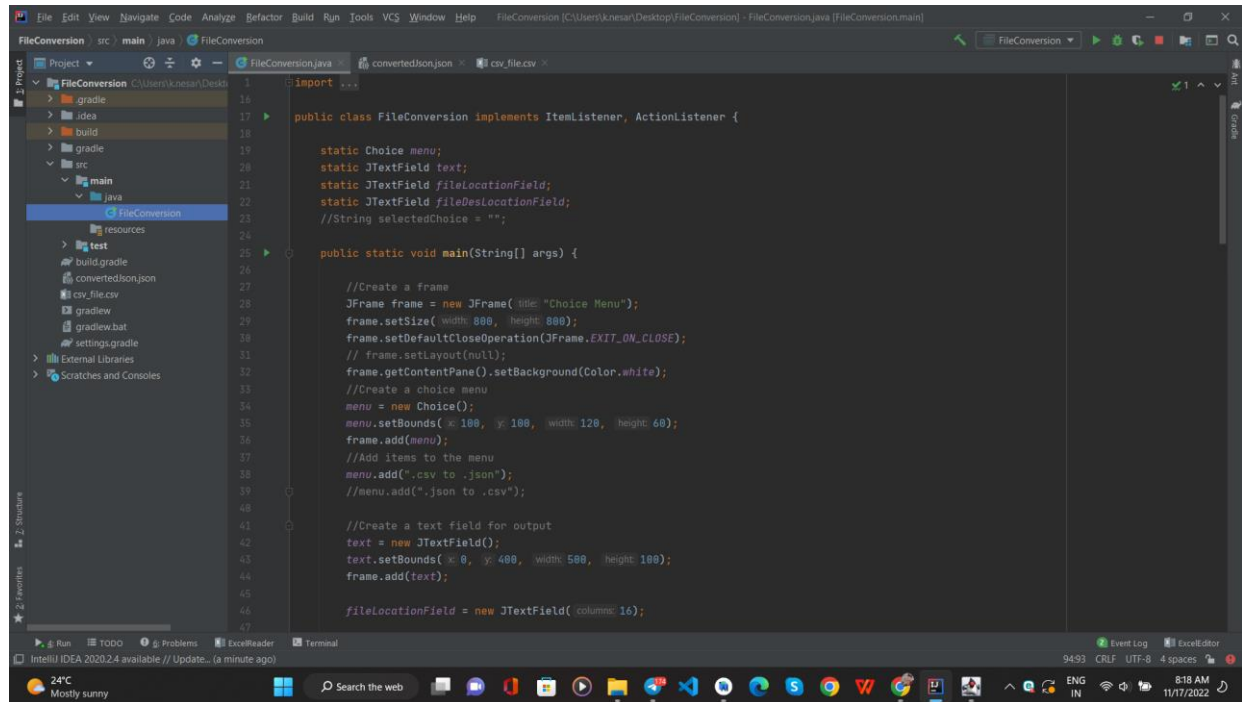
Nowadays, Java is supported by almost every operating systems. Whether it is a Windows, Macintosh and Unix all supports the Java application development. So you can download any of the operating system on your personal computer. Here are the minimum requirement.

The software require for project includes package necessary to successfully compile and build the program.

- Operating System
- Java SDK or JRE 1.6 or higher
- Java Servlet Container (Free Servlet Container available)
- Supported Database and library that supports the database connection with Java.

Project Name

IMPLEMENTATION OF THE PROJECT with Screenshots:



```
import java.awt.*;
import java.awt.event.*;

public class FileConversion implements ItemListener, ActionListener {

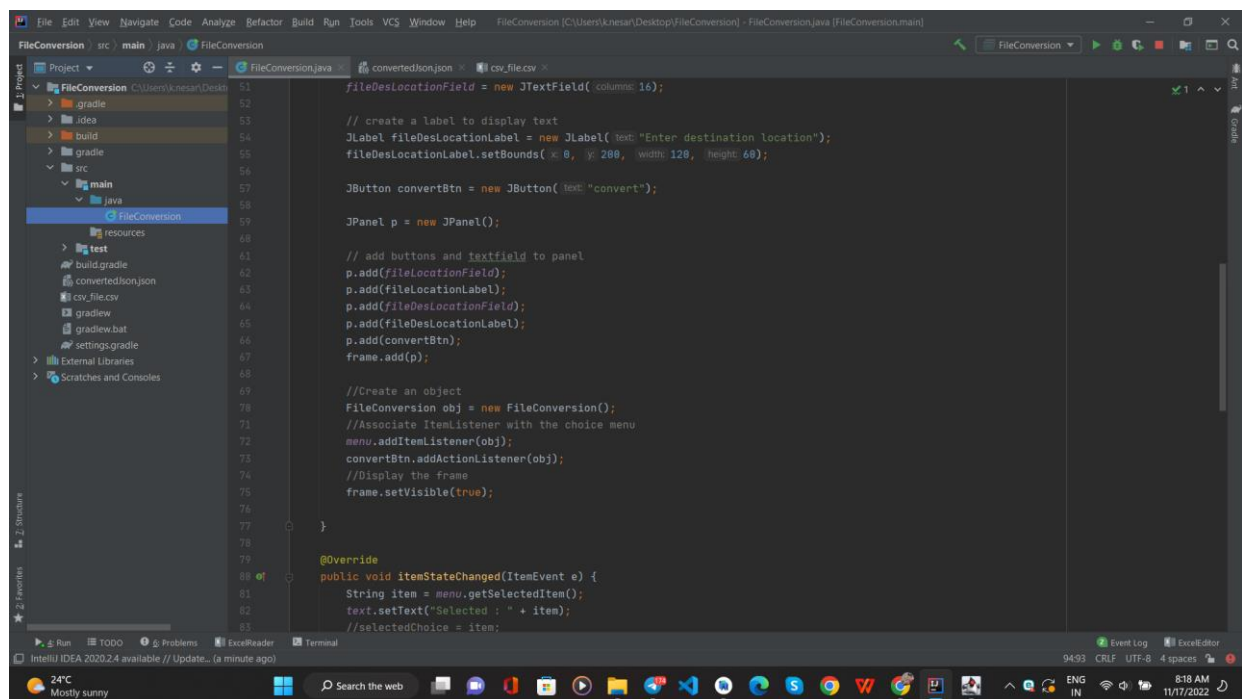
    static Choice menu;
    static JTextField text;
    static JTextField fileLocationField;
    static JTextField fileDestinationField;
    //String selectedChoice = "";

    public static void main(String[] args) {

        //Create a frame
        JFrame frame = new JFrame("Choice Menu");
        frame.setSize(800, 800);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        // frame.setLayout(null);
        frame.getContentPane().setBackground(Color.white);
        //Create a choice menu
        menu = new Choice();
        menu.setBounds(100, 100, 120, 60);
        frame.add(menu);
        //Add items to the menu
        menu.add(".csv to .json");
        menu.add(".json to .csv");

        //Create a text field for output
        text = new JTextField();
        text.setBounds(0, 400, 500, 100);
        frame.add(text);

        fileLocationField = new JTextField(16);
```



```
fileDestinationField = new JTextField(16);

// create a label to display text
JLabel fileDestinationLabel = new JLabel("Enter destination location");
fileDestinationLabel.setBounds(0, 200, 120, 60);

JButton convertBtn = new JButton("convert");

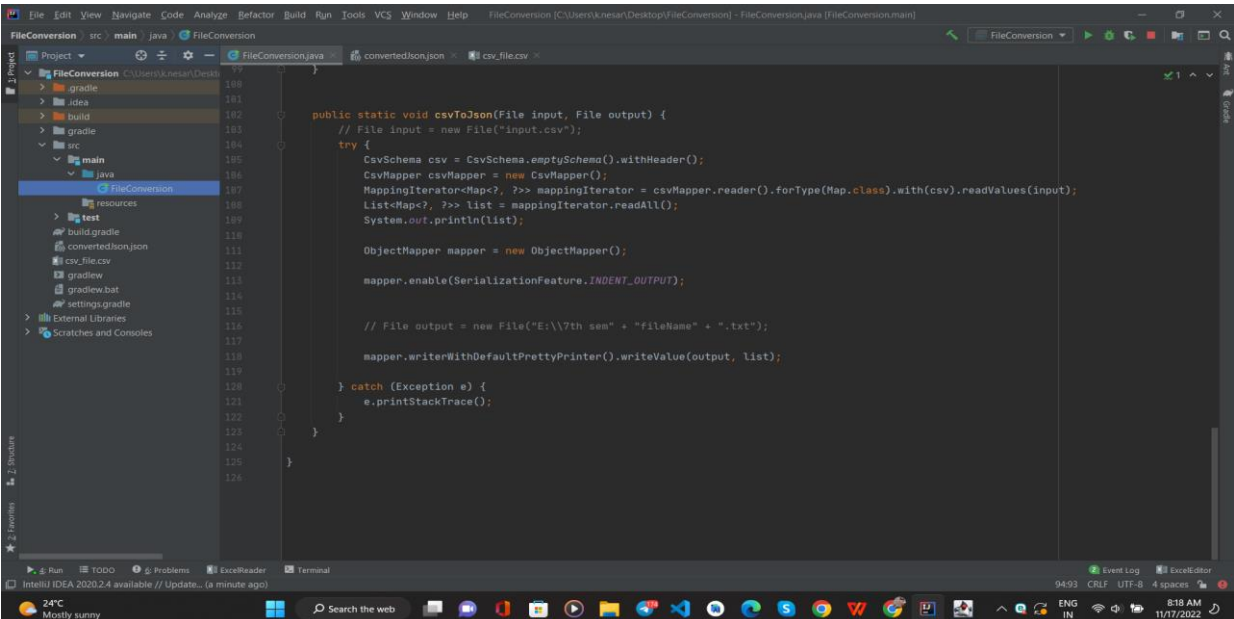
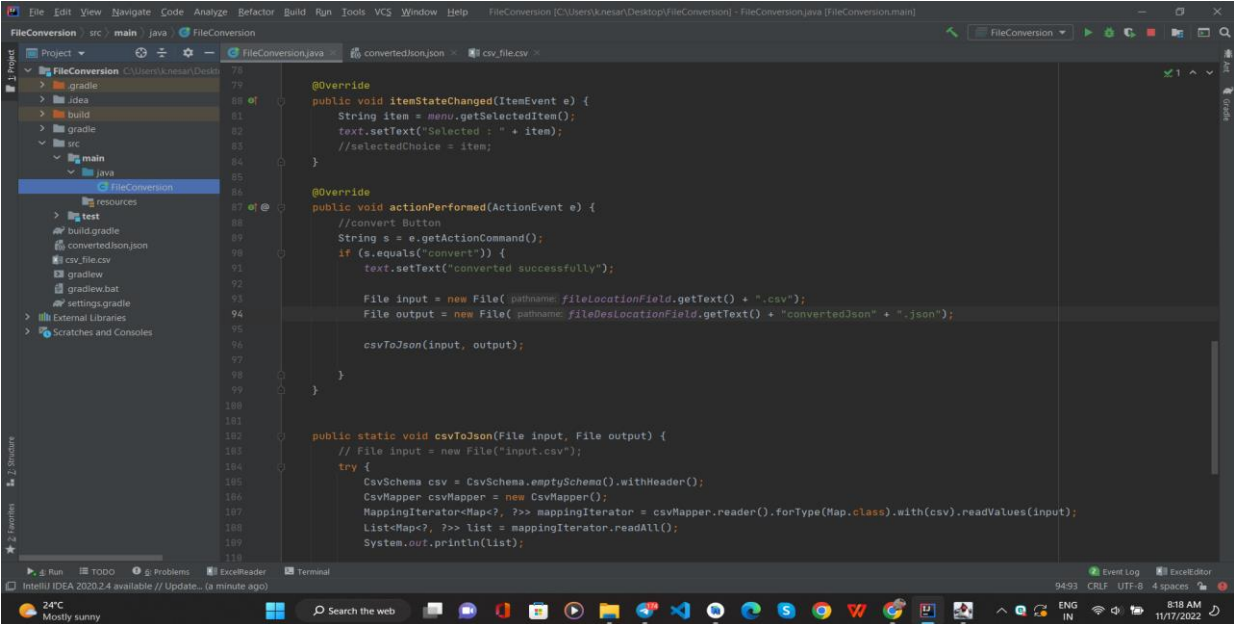
JPanel p = new JPanel();

// add buttons and textfield to panel
p.add(fileLocationField);
p.add(fileDestinationLabel);
p.add(fileDestinationField);
p.add(fileDestinationLabel);
p.add(convertBtn);
frame.add(p);

//Create an object
FileConversion obj = new FileConversion();
//Associate ItemListener with the choice menu
menu.addItemListener(obj);
convertBtn.addActionListener(obj);
//Display the frame
frame.setVisible(true);

@Override
public void itemStateChanged(ItemEvent e) {
    String item = menu.getSelectedItem();
    text.setText("Selected : " + item);
    //selectedChoice = item;
```

Project Name



Project Name

The screenshot shows the IntelliJ IDEA interface for a project named 'FileConversion'. The project structure on the left includes 'src/main/java' and 'resources'. The 'resources' folder contains 'FileConversion.csv'. The main editor displays the content of 'FileConversion.csv', which is a CSV file with 12 rows of data. The console at the bottom shows the output of the 'FileConversion.main()' method, which prints the contents of the CSV file as a JSON array of objects.

```
FileConversion.csv
1 "album","year","US_peak_chart_post"
2 "Gilgamesh",1975,"-"
3 "Sahakti with John McLaughlin",1976,194
4 "A Handful of Beauty",1976,168
5 "Natural Elements",1977,"-"
6 "Another Fine Tune You've Got Me Inot",1979,"-"
7 "Arriving Twice",2000,3
8 "Icky Thump",2007,2
9 "Under Great White Northern Lights",2010,11
10 "Live in Mississippi",2011,"-"
11 "Live at the Gold Dollar",2012,"-"
12 "Nine Miles from the White City",2013,"-"

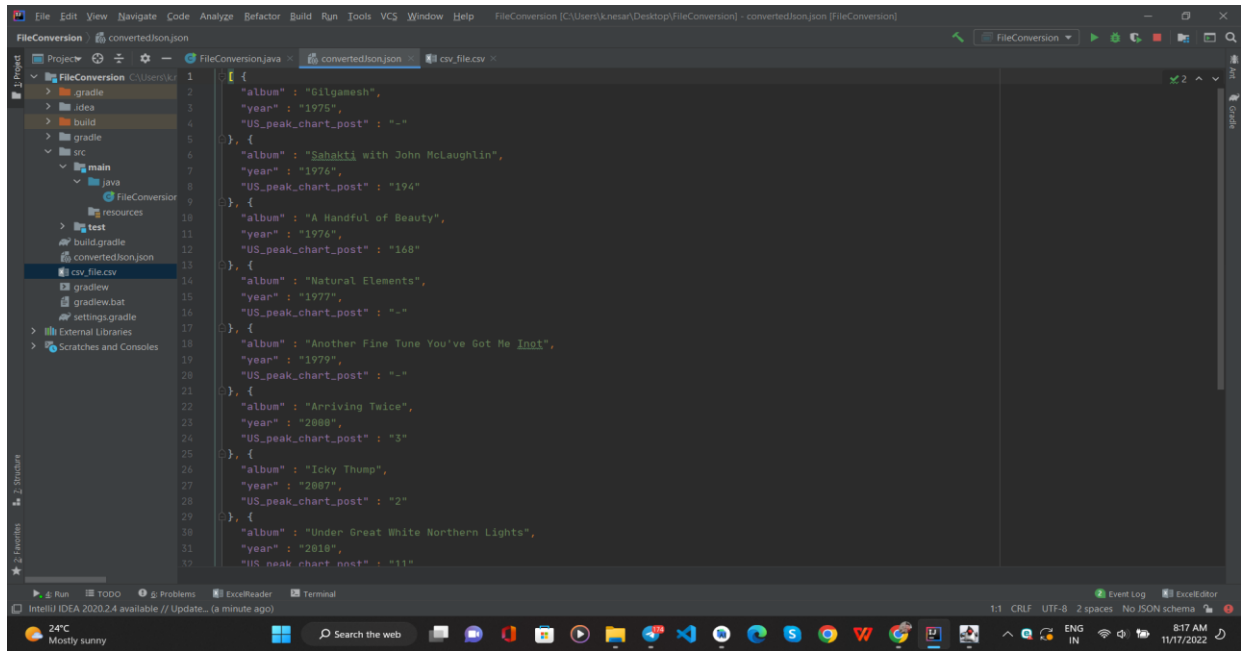
FileConversion.main()
> Task :compileJava
> Task :processResources NO-SOURCE
> Task :classes
> Task :FileConversion.main()
[{album=Gilgamesh, year=1975, US_peak_chart_post=-}, {album=Sahakti with John McLaughlin, year=1976, US_peak_chart_post=194}, {album=A Handful of Beauty, year=1976, US_peak_chart_post=168}, {album=Natural Elements, year=1977, US_peak_chart_post=-}, {album=Another Fine Tune You've Got Me Inot, year=1979, US_peak_chart_post=-}, {album=Arriving Twice, year=2000, US_peak_chart_post=3}, {album=Icky Thump, year=2007, US_peak_chart_post=2}, {album=Under Great White Northern Lights, year=2010, US_peak_chart_post=11}, {album=Live in Mississippi, year=2011, US_peak_chart_post=-}, {album=Live at the Gold Dollar, year=2012, US_peak_chart_post=-}, {album=Nine Miles from the White City, year=2013, US_peak_chart_post=-}]
```

The screenshot shows the IntelliJ IDEA interface for a project named 'FileConversion'. The project structure on the left includes 'src/main/java' and 'resources'. The 'resources' folder contains 'FileConversion.csv'. The main editor displays the content of 'FileConversion.csv', which is a CSV file with 12 rows of data. The console at the bottom shows the output of the 'FileConversion.main()' method, which prints the contents of the CSV file as a JSON array of objects.

```
FileConversion.csv
1 "album","year","US_peak_chart_post"
2 "Gilgamesh",1975,"-"
3 "Sahakti with John McLaughlin",1976,194
4 "A Handful of Beauty",1976,168
5 "Natural Elements",1977,"-"
6 "Another Fine Tune You've Got Me Inot",1979,"-"
7 "Arriving Twice",2000,3
8 "Icky Thump",2007,2
9 "Under Great White Northern Lights",2010,11
10 "Live in Mississippi",2011,"-"
11 "Live at the Gold Dollar",2012,"-"
12 "Nine Miles from the White City",2013,"-"

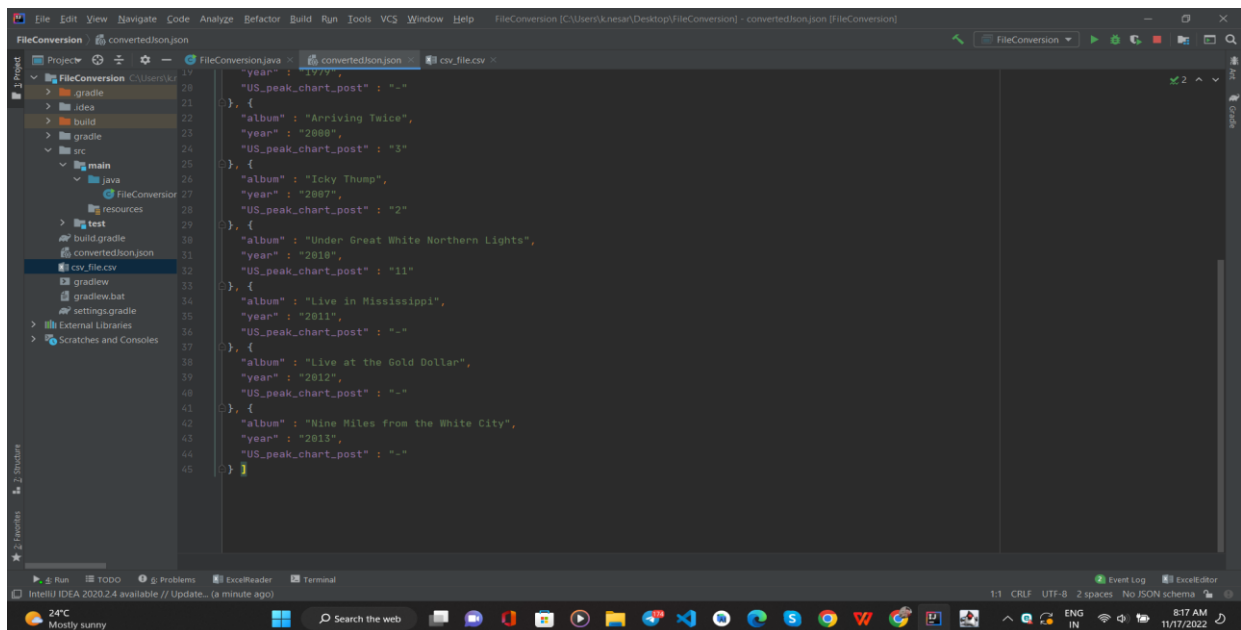
FileConversion.main()
> Task :compileJava
> Task :processResources NO-SOURCE
> Task :classes
> Task :FileConversion.main()
[{album=Gilgamesh, year=1975, US_peak_chart_post=-}, {album=Sahakti with John McLaughlin, year=1976, US_peak_chart_post=194}, {album=A Handful of Beauty, year=1976, US_peak_chart_post=168}, {album=Natural Elements, year=1977, US_peak_chart_post=-}, {album=Another Fine Tune You've Got Me Inot, year=1979, US_peak_chart_post=-}, {album=Arriving Twice, year=2000, US_peak_chart_post=3}, {album=Icky Thump, year=2007, US_peak_chart_post=2}, {album=Under Great White Northern Lights, year=2010, US_peak_chart_post=11}, {album=Live in Mississippi, year=2011, US_peak_chart_post=-}, {album=Live at the Gold Dollar, year=2012, US_peak_chart_post=-}, {album=Nine Miles from the White City, year=2013, US_peak_chart_post=-}]
```

Project Name



The screenshot shows the IntelliJ IDEA interface with a project named 'FileConversion'. The 'convertedIson.json' file is open, displaying a JSON array of 11 album objects. The IDE's Project View on the left shows the project structure, including 'src/main/java' and 'resources'. The bottom status bar indicates the file is in UTF-8 encoding with 2 spaces and no JSON schema.

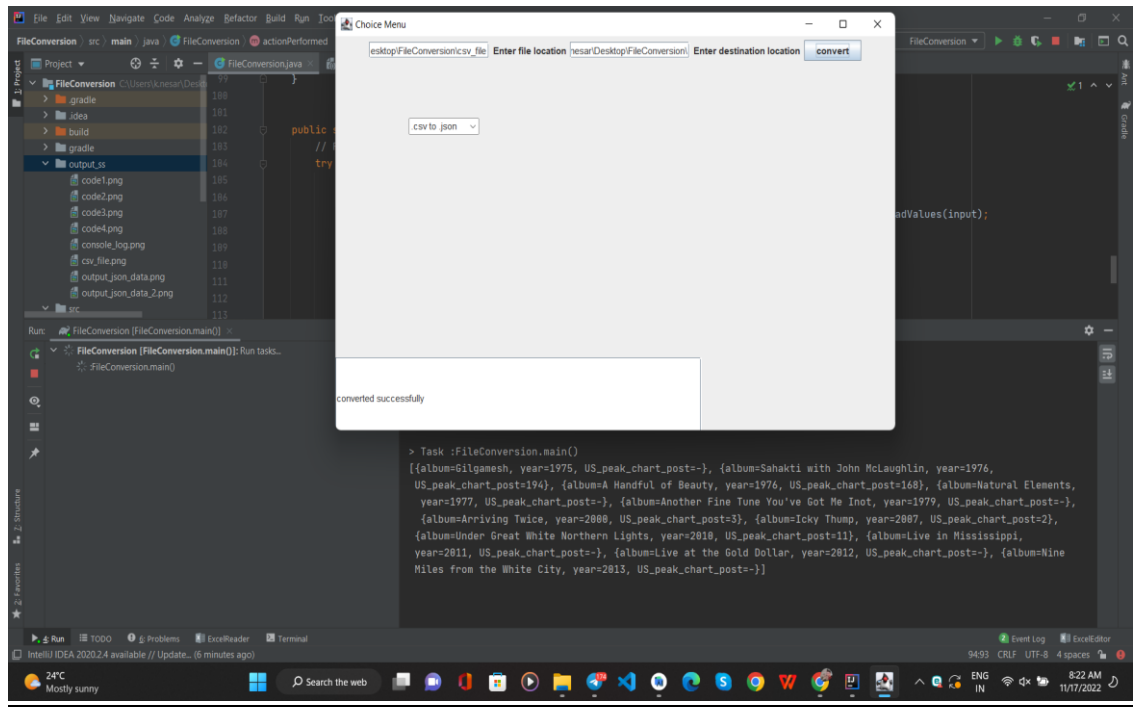
```
1  [{"album": "Gilgamesh",
2    "year": "1975",
3    "US_peak_chart_post": "-"},
4  ], {
5    "album": "Sabakti with John McLaughlin",
6    "year": "1976",
7    "US_peak_chart_post": "194"},
8  ], {
9    "album": "A Handful of Beauty",
10   "year": "1976",
11   "US_peak_chart_post": "168"},
12 ], {
13   "album": "Natural Elements",
14   "year": "1977",
15   "US_peak_chart_post": "-"},
16 ], {
17   "album": "Another Fine Tune You've Got Me Ingi",
18   "year": "1979",
19   "US_peak_chart_post": "-"},
20 ], {
21   "album": "Arriving Twice",
22   "year": "2000",
23   "US_peak_chart_post": "3"},
24 ], {
25   "album": "Icky Thump",
26   "year": "2007",
27   "US_peak_chart_post": "2"},
28 ], {
29   "album": "Under Great White Northern Lights",
30   "year": "2010",
31   "US_peak_chart_post": "11"}
32 ]
```



This screenshot shows the same IntelliJ IDEA interface, but the 'convertedIson.json' file now contains 11 different album entries. The IDE's Project View and status bar remain the same as in the first screenshot.

```
19   "year": "1979",
20   "US_peak_chart_post": "-"},
21 ], {
22   "album": "Arriving Twice",
23   "year": "2000",
24   "US_peak_chart_post": "3"},
25 ], {
26   "album": "Icky Thump",
27   "year": "2007",
28   "US_peak_chart_post": "2"},
29 ], {
30   "album": "Under Great White Northern Lights",
31   "year": "2010",
32   "US_peak_chart_post": "11"},
33 ], {
34   "album": "Live in Mississippi",
35   "year": "2011",
36   "US_peak_chart_post": "-"},
37 ], {
38   "album": "Live at the Gold Dollar",
39   "year": "2012",
40   "US_peak_chart_post": "-"},
41 ], {
42   "album": "Nine Miles from the White City",
43   "year": "2013",
44   "US_peak_chart_post": "-"},
45 ]
```

Project Name



CONCLUSION:

Platforms that support java without recompilation.

As we all know, java is one of the most popular and in-demand programming languages to learn and it was one of the first languages to standardize high-level threading utilities.

Java project is a must for aspiring developers.

This project helps developers develop real-world projects to hone their skills and materialize their theoretical knowledge into practical experience.

Java has significant advantages both as a commercial language and also as a technical language.

Java project provides rigorous compile time error checking typically associated with pascal, allowing instructors to introduce students to GUI programming, networking, threads, and other important concepts used in modern day software.

Overall, the java project gives a complete design for the extended language.

It was great experience working for this project.!

Project Name

BIBLIOGRAPHY:

- “Core Java™, Volume I--Fundamentals (8th Edition) “ , by Cay S. Horstmann, Prentice Hall; 8 edition (April 18, 2008).
- “Effective Java (2nd Edition)” , by Addison-Wesley; 2 edition (May 28, 2008) .
- “Java The Complete Reference, 8th Edition”, McGraw-Hill Osborne Media; 8 edition (June 22, 2011).
- A Programmer's Guide to Java SCJP Certification: A Comprehensive Primer (3rd Edition), Addison-Wesley Professional; 3 edition (December 29, 2008).
- “More Java Pitfalls: 50 New Time-Saving Solutions and Workarounds” , by Michael C. Daconta (Author), Kevin T. Smith (Author), Donald Avondolio (Author), W. Clay Richardson (Author), Wiley; 1 edition (February 3, 2003).
- “Head First Servlets and JSP: Passing the Sun Certified Web Component Developer Exam “, by Bryan Basham (Author), Kathy Sierra (Author), Bert Bates (Author), O'Reilly Media; Second Edition edition (April 1, 2008).
- “Head First Design Patterns”, Elisabeth Freeman (Author), Eric Freeman (Author), Bert Bates (Author), Kathy Sierra (Author), Elisabeth Robson (Author), O'Reilly Media; 1 edition (November 1, 2004)
- “EJB 3 in Action”, Debu Panda (Author), Reza Rahman (Author), Derek Lane (Author), Manning Publications; 1 edition (April 16, 2007).
- “JBoss: A Developer's Notebook” , Norman Richards (Author), Sam Griffith (Author), O'Reilly
- Enterprise Java™ Security: Building Secure J2EE™ Applications, Marco Pistoia (Author), Nataraj Nagaratnam (Author), Larry Koved (Author), Anthony Nadalin (Author), Addison- Wesley Professional; 1 edition (February 27, 2004).

Project Name

- “Java EE 6 Development with NetBeans 7”, Author: David Heffelfinger, Published: June 2011, PACKT Publishing, UK. NetBeans IDE 7.0 Cookbook, Author: Rhawi Dantas, Published: May 2011, PACKT Publishing, UK
- “Art of Java Web Development: Struts, Tapestry, Commons, Velocity, JUnit, Axis, Cocoon, InternetBeans, WebWork”, Neal Ford (Author), Manning Publications (November 1, 2003).
- “Struts 2 in Action”, Don Brown (Author), Chad Michael Davis (Author), Scott Stanlick (Author), Manning Publications; 1 edition (May 1, 2008).
- “Hibernate in Action (In Action series)”, Christian Bauer (Author), Gavin King (Author), Manning Publications (August 1, 2004) “Web Services Essentials (O'Reilly XML)”, Ethan Cerami (Author), O'Reilly Media (February 2002) .
- “Object-Oriented Software Construction (Book/CD-ROM) (2nd Edition)” ,Bertrand Meyer (Author), Prentice Hall; 2nd edition (March 21, 2000).
- Java Black Book, Steve Holzner (Author), Steven Holzner (Author), Paraglyph Press; Second Edition edition (July 1, 2002)

Project Name