





























The screenshot shows the Eclipse IDE interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Title Bar:** CSARCH2-UnicodeConverter
- Left Sidebar:** Explorer, Open Editors, CSAR..., Documentation, src, GUI.java, Main.java, RoundButton.java, RoundedTabbedPane.java, translator.java, hahah.txt, hahaha.txt, README.md, Test Cases.txt, TESTING.txt.
- Central Area:** Editor showing the content of Test Cases.txt:

```
20 Result: UTF-16 output: DBEF DEEF
21
22 Input: 10BEEF
23 Result: UTF-32 output: 0010BEEF
24
25 Input: 10BEEF
26 Result:
27 UTF-8: F4 8B BB AF
28 UTF-16: DBEF DEEF
29 UTF-32: 0010BEEF
30
31 Input: AD100
32 Result: UTF-8 output: F2 AD 84 80
33
34 Input: AD100
35 Result: UTF-16 output: DA74 D000
36
37 Input: AD100
38 Result: UTF-32 output: 000AD100
39
40 Input: AD100
41 Result:
42 UTF-8: F2 AD 84 80
43 UTF-16: DA74 D000
44 UTF-32: 000AD100
```
- Bottom Status Bar:** Ln 1, Col 1, Spaces: 4, UTF-8, LF, Plain Text, 27°C, 10:03 pm, 22/03/2024.

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- Central Area:** Editor showing the content of Test Cases.txt:

```
41 Result:
42 UTF-8: F2 AD 84 80
43 UTF-16: DA74 D000
44 UTF-32: 000AD100
45
46 Input: 21CAFE
47 Result: UTF-8 output: Invalid Unicode character
48
49 Input: 21CAFE
50 Result: UTF-8 output: Invalid Unicode character
51
52 Input: 21CAFE
53 Result: UTF-16 output: Invalid Unicode character
54
55 Input: 21CAFE
56 Result: UTF-32 output: 0021CAFE
57
58 Input: 21CAFE
59 Result:
60 UTF-8: Invalid Unicode character
61 UTF-16: Invalid Unicode character
62 UTF-32: 0021CAFE
63
64 Input: WHIDHEIH
error: Invalid UTF-8 subtype. Truncated character after a valid boundary. Unload character.
```
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The screenshot shows the Eclipse IDE interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Toolbar:** Standard Eclipse toolbar icons.
- Left Sidebar:** Explorer (showing project structure), Outline, Timeline, Java Projects.
- Central Area:**
 - Open Editors:** GUI.java, Test Cases.txt (selected), converter.java.
 - Terminal:** Displays command-line output from a Java application. The output shows various Unicode conversion attempts and errors, such as "Result: UTF-8 output: Invalid! Please enter a valid hexadecimal Unicode character." and "Result: UTF-32: Invalid! Please enter a valid hexadecimal Unicode character." It also includes a command to run the GUI.
- Bottom:** Status bar showing file paths, line numbers, and other system information.

```
PS C:\Users\VALROY REYES\Desktop\CSARCH2-UnicodeConverter> c; cd 'c:\Users\VALROY REYES\Desktop\CSARCH2-UnicodeConverter'; & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\VALROY REYES\AppData\Roaming\Code\User\workspaceStorage\la13536682ec945048b9399f2d12b2d98\redhat-.java\jdt_vs\CSARCH2-UnicodeConverter_c0498368\bin' 'GUI'
```

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- Title Bar:** CSARCH2-UnicodeConverter
- Left Sidebar (Explorers):** OPEN EDITORS (GUI.java src, Test Cases.txt, converter.java src, RoundButton.java...), Documentation, SRC (converter.java, dump.java, GUI.java, Main.java, RoundButton.java, RoundedTabbedPanePan..., translator.java), hahah.txt, haha.txt, README.md, TESTNG.txt.
- Central Area:** Test Cases.txt (Content pane) and converter.java (Editor pane).
- Test Cases.txt Content:**

```
90 Input: DAFF AEDD
91 Result: Unicode output: Invalid UTF-16 encoding.
92
93 Input: F48BAABE
94 Result: Unicode output: Invalid input format. Please enter XX XX XX XX format.
95
96 Input: 12@ud3hd2
97 Result: Unicode output: Invalid input format. Please enter XX XX XX XX format.
98
99 Input: 12@ud3hd2
100 Result: Unicode output: Invalid input format. Please enter XXXX XXXX format.
101
102 Input: 12@ud3hd2
103 Result: Unicode output: Invalid input format.
104
105 Input: DBFFDEDD
106 Result: Unicode output: Invalid input format.
107
108 Input: DBFFDEDD
109 Result: Unicode output: Invalid input format. Please enter XXXX XXXX format.
110
111 Input: DBFFDEDD
112 Result: Unicode output: Invalid input format. Please enter XX XX XX XX format.
113
114
115
```

- Bottom Status Bar:** PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Run: GUI, Run: GUI, Ln 1, Col 1, Spaces: 4, UTF-8, 27°C, 10:03 pm, 22/03/2024.

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```
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96
97 Input: 12@ud3hd2
98 Result: Unicode output: Invalid input format. Please enter XX XX XX XX format.
99
100 Input: 12@ud3hd2
101 Result: Unicode output: Invalid input format. Please enter XXXX XXXX format.
102
103 Input: 12@ud3hd2
104 Result: Unicode output: Invalid input format.
105
106 Input: DBFFDEDD
107 Result: Unicode output: Invalid input format.
108
109 Input: DBFFDEDD
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