

# DFA ACCEPTANCE CHECKER

This Java program simulates a **Deterministic Finite Automaton (DFA)** that determines whether a given binary string ends with the substring "01". The program processes the input string symbol by symbol (0 or 1), transitioning between predefined states according to DFA rules. If, after reading the entire string, the automaton ends in the **accepting state**, the input is declared "**Accepted**"; otherwise, it is "**Rejected.**"

## RESULTS:

```
Enter binary number:  
1101  
OUTPUT: ACCEPTED
```

```
<terminated> LabAct1 [Java  
Enter binary number:  
0110  
OUTPUT: DENIED
```