Here are solution of task no 02

2. Match Parentheses using Stack

```java
import java.util.Stack;

public class MatchParentheses {
    public static boolean isBalanced(String str) {
        Stack<Character> stack = new Stack<>();

        for (char ch : str.toCharArray()) {
            if (ch == '(' || ch == '{' || ch == '[') {
                stack.push(ch);
            } else if (ch == ')' || ch == '}' || ch == ']') {
                if (stack.isEmpty()) return false;
                char top = stack.pop();
                if ((ch == ')' && top != '(') ||
                    (ch == '}' && top != '{') ||
                    (ch == ']' && top != '[')) {
                    return false;
                }
            }
        }
        return stack.isEmpty();
    }

    public static void main(String[] args) {
        String input = "{[()]}";
        System.out.println("Input: " + input);
        System.out.println("Is balanced? " + isBalanced(input));
    }
}
```

Output:

Input: {[()]}
Is balanced? true