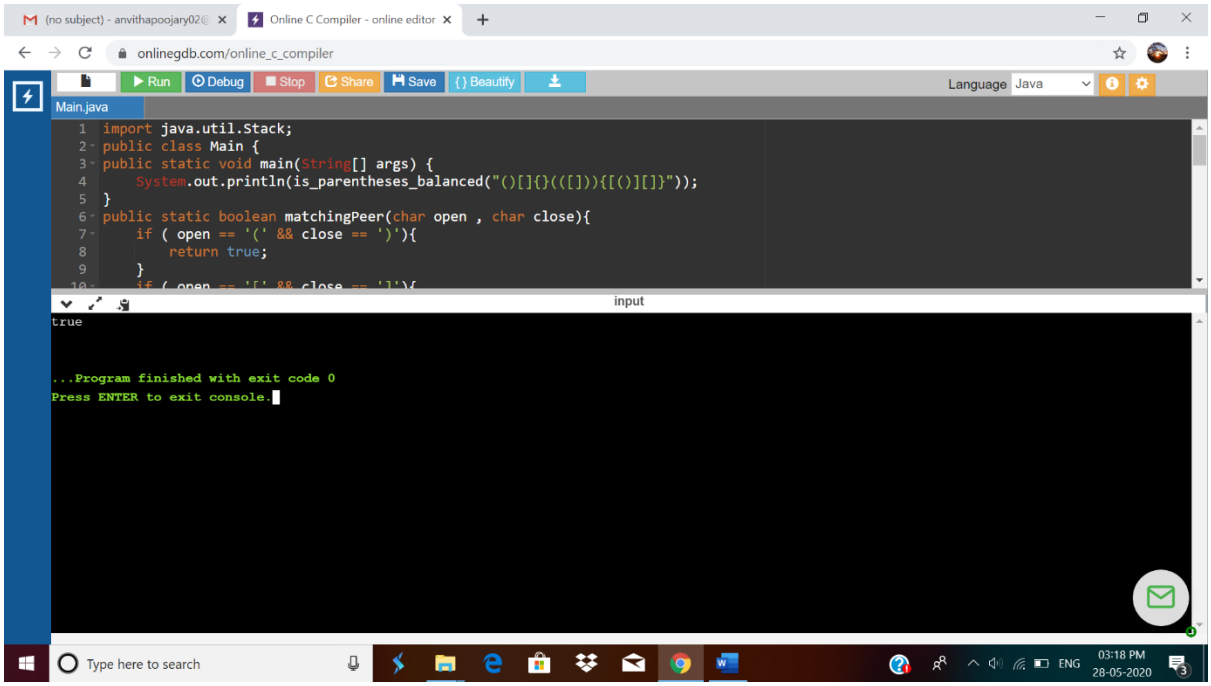
2. JAVA PROGRM-BALANCED BRAKET

Write a function that accepts a string consisting entiring of brackets ({}) and returns whether it is balanced. Every "opening" bracket must be followed by a closing bracket of the same type. There can also be nested brackets, which adhere to the same rule.
f('()[]{}(([])){[()][]}') // true
f('())[]{}') // false

```
import java.util.Stack;

public class Main {
public static void main(String[] args) {
        System.out.println(is_parentheses_balanced("()[]{}(([])){[()][]}"));
}
public static boolean matchingPeer(char open , char close){
        if ( open == '(' && close == ')'){
                return true;
        }
        if ( open == '[' && close == ']'){
                return true;
        }
        else{
        return false;
        }
    }

    public static boolean is_parentheses_balanced(String equation){

        char[] c = equation.toCharArray();
```

```
        Stack <Character> myStack= new Stack <Character> ();
        for (int i = 0; i < c.length; i++){
            if(c[i]=='(' || c[i] == '[' ){
                myStack.push(c[i]);
            }
            else if (c[i]== ')' || c[i]==']'){
                    if(matchingPeer(myStack.peek(),c[i]) == true){
                        myStack.pop();

                    } else {
                        return false;
                    }
            }
        }
        if(myStack.isEmpty()){
            return true;
        }
        else {
            return false;
        }

}
}
```

Output:


(no subject) - anvithapoojary02@
Online C Compiler - online editor
onlinegdb.com/online_c_compiler
Run
Debug
Stop
Share
Save
{ } Beautify
Language
Java
Main.java
import java.util.Stack;
public class Main {
public static void main(String[] args) {
System.out.println(is_parentheses_balanced("()[]{}(([])){[()][]}"));
}
public static boolean matchingPeer(char open , char close){
if (open == '(' && close == ')'){
return true;
}
input
true
...Program finished with exit code 0
Press ENTER to exit console.
Type here to search
ENG
03:18 PM
28-05-2020