PROBLEMS (7) OUTPUT TERMINAL DEBUG CONSOLE
ab
Specify the grammar(Enter 9 for epsilon production)

CODE:

```
2 import java.io.*;
                        static char ntermnl[], termnl[];
                         static String grmr[][], fst[], flw[];
                                     String nt, t;
                                      int i, j, n;
                                     BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
System.out.println(x: "Enter the non-terminals");
                                     nt = br.readLine();
                                     ntlen = nt.length();
                                     ntermnl = new char[ntlen];
ntermnl = nt.toCharArray();
System.out.println(x: "Enter the terminals");
                                     t = br.readLine();
                                    t = br.readLine();
tlen = t.length();
termnl = new char[tlen];
termnl = t.toCharArray();
System.out.println(x: "Specify the grammar(Enter 9 for epsilon production)");
grmr = new StringIntlenIII:
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Specify the grammar(Enter 9 for epsilon production)
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▼ File Edit Selection View Go Run Terminal Help
                                                                                                                                                System.out.println(x: "Specify the grammar(Enter 9 for epsilon production)");
                                    grmr = new String[ntlen][];
                                               System.out.println("Enter the number of productions for " + ntermnl[i]);
n = Integer.parseInt(br.readLine());
grmr[i] = new String[n];
System.out.println(x: "Enter the productions");
                                                for (j = 0; j < n; j++)
grmr[i][j] = br.readLine();
                                    for (i = 0; i < ntlen; i++)
                                               System.out.println(removeDuplicates(fst[i]));
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                                    for (i = 0; i < ntlen; i++)
    flw[i] = follow(i);
System.out.println(x: "Follow Set");</pre>
                                                System.out.println(removeDuplicates(flw[i]));
```

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                                                                                                                                                                                                                                                                                        static String first(int i) {
   int j, k, l = 0, found = 0;
   String temp = "", str = "";
   for (j = 0; j < grmr[i].length; j++) // number of productions</pre>
                                                                    for (k = 0; k < grmr[i][j].length(); k++, found = 0) // when nonterminal has epsilon
                                                                                             for (1 = 0; 1 < ntlen; 1++) // finding nonterminal</pre>
                                                                                                                     if (grmr[i][j].charAt(k) == ntermnl[l]) // for nonterminal in first
                                                                                                                                             if (!(str.length() == 1 && str.charAt(index: 0) == '9')) // when
                                                                                                                                                                     temp = temp + str;
                                                                                                                                             found = 1;
                                                                                                                                                                                                                                                                                                                ≥ Code
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Specify the grammar(Enter 9 for epsilon production)

        $\phi$
        $\psi$
                                                                                                                                                                                                                                                                                        found = 1;
                                                                                             if (found == 1) {
                                                                                                                    if (str.contains(s: "9")) // here epsilon will lead to next nonterminal's
                                                                                            } else // if first set includes terminal
temp = temp + grmr[i][j].charAt(k);
                                           return temp:
                  static String follow(int i) {
                                         char pro[], chr[];

String temp = "";

int j, k, 1, m, n, found = 0;

if (i == 0)
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temp = "\$";

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OUTPUT TERMINAL DEBUG CONSOLE

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                                                                                                                                                                                                                                                                                                                            apnacollege > J fstnflw.java > $ fstnflw > Ø ntermnl
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                                                                                                                                                                                                                              else
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                                                                                                                                                                             found = 1;
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★ File Edit Selection View Go Run Terminal
                                                                                                                                                                                                                                                                                                                            static String removeDuplicates(String str) {
                                                                              sb.append(ch);
                                                                                  return sb.toString();
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OUTPUT:

