

src\Problem1.java

```
1  /*
2  Name: Hunter Poole
3  Date: 2/24/25
4  HW #: 5
5  Problem #: 1
6  Source Code: Problem1.java
7  Action: Takes a single char, returns char, ASCII value,
8          and next two characters. Runs in a loop.
9          Counts # of uppercase, lowercase, digits, and
10         other characters entered. '#' to exit.
11         Displays a table for counts of char types at exit.
12  */
13
14  import java.util.Scanner;
15
16  public class Problem1
17  {
18      public static void main(String[] args)
19      {
20          char Ch, NextCh, NextCh2;
21          int Ch_Value, Uppercase = 0, Lowercase = 0, Digit = 0, Other = 0;
22
23          Scanner Input = new Scanner(System.in);
24
25          do
26          {
27              System.out.print("Please enter your character ---> ");
28              Ch = Input.next().charAt(0);
29              Ch_Value = Ch;
30
31              if (Ch != '#')
32              {
33                  System.out.printf("%n%s %c %n%s %c %s %d %n", "You entered", Ch,
34                                  "The ASCII value of", Ch, "is", Ch_Value);
35
36                  NextCh = Ch;
37                  NextCh2 = ++NextCh;
38
39                  System.out.printf("%s %c %s %c %n%n", "The next two characters are:", NextCh++,
40                                  "and", ++NextCh2);
41              }
42
43              if (Character.isUpperCase(Ch))
44              {
45                  Uppercase++;
46              }
47              else if (Character.isLowerCase(Ch))
```

```
48         {
49             Lowercase++;
50         }
51         else if (Character.isDigit(Ch))
52         {
53             Digit++;
54         }
55         else if (Ch != '#')
56         {
57             Other++;
58         }
59
60     }while (Ch != '#');
61
62     System.out.printf("%n%s %d %n%s %d %n%s %d %n%s %d", "Number of uppercase----->",
63                     Uppercase,"Number of lowercase----->", Lowercase,
64                     "Number of numbers----->", Digit,
65                     "Number of other characters-->", Other);
66 }
67 }
68
69 /*
70 Please enter your character ---> A
71
72 You entered A
73 The ASCII value of A is 65
74 The next two characters are: B and C
75
76 Please enter your character ---> v
77
78 You entered v
79 The ASCII value of v is 118
80 The next two characters are: w and x
81
82 Please enter your character ---> 5
83
84 You entered 5
85 The ASCII value of 5 is 53
86 The next two characters are: 6 and 7
87
88 Please enter your character ---> @
89
90 You entered @
91 The ASCII value of @ is 64
92 The next two characters are: A and B
93
94 Please enter your character ---> (
95
96 You entered (
```

```
97 | The ASCII value of ( is 40
98 | The next two characters are: ) and *
99 |
100 | Please enter your character ---> #
101 |
102 | Number of uppercase-----> 1
103 | Number of lowercase-----> 1
104 | Number of numbers-----> 1
105 | Number of other characters--> 2
106 |
107 |      ///// Extremes \\\\\\\
108 |
109 | Please enter your character ---> !
110 |
111 | You entered !
112 | The ASCII value of ! is 33
113 | The next two characters are: " and #
114 |
115 | Please enter your character ---> ~
116 |
117 | You entered ~
118 | The ASCII value of ~ is 126
119 | The next two characters are:  and ?
120 |
121 | Please enter your character ---> #
122 |
123 | Number of uppercase-----> 0
124 | Number of lowercase-----> 0
125 | Number of numbers-----> 0
126 | Number of other characters--> 2
127 | */
```