src\Problem1.java

```
1
    /*
 2
   Name: Hunter Poole
 3
    Date: 2/24/25
 4
   HW #: 5
 5
    Problem #: 1
 6
    Source Code: Problem1.java
    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.
            Displays a table for counts of char types at exit.
11
12
     */
13
    import java.util.Scanner;
14
15
    public class Problem1
16
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 ---> ");
                Ch = Input.next().charAt(0);
28
                Ch_Value = Ch;
29
30
                if (Ch != '#')
31
32
                System.out.printf("%n%s %c %n%s %c %s %d %n", "You entered", Ch, "The ASCII value
33
    of",
                Ch, "is", Ch_Value);
34
35
                NextCh = Ch;
36
                NextCh2 = ++NextCh;
37
38
                System.out.printf("%s %c %s %c %n%n", "The next two characters are:", NextCh++,
39
                                 "and", ++NextCh2);
40
                }
41
42
                if (Character.isUpperCase(Ch))
43
44
                 {
45
                     Uppercase++;
46
                 }
```

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```
47
                else if (Character.isLowerCase(Ch))
48
49
                    Lowercase++;
50
                }
                else if (Character.isDigit(Ch))
51
52
53
                    Digit++;
54
                }
                else if (Ch != '#')
55
56
                {
57
                    Other++;
58
                }
59
60
            }while (Ch != '#');
61
            System.out.printf("%n%s %d %n%s %d %n%s %d %n%s %d", "Number of uppercase------",
62
    Uppercase,
63
                                "Number of lowercase----->", Lowercase, "Number of
    numbers---->", Digit,
                                "Number of other characters-->", Other);
64
        }
65
66
   }
67
68
69
   Please enter your character ---> A
70
71
   You entered A
   The ASCII value of A is 65
72
73
   The next two characters are: B and C
74
75
   Please enter your character ---> v
76
77
   You entered v
   The ASCII value of v is 118
78
79
   The next two characters are: w and x
80
81
   Please enter your character ---> 5
82
   You entered 5
83
   The ASCII value of 5 is 53
84
85
   The next two characters are: 6 and 7
86
87
   Please enter your character ---> @
88
89
   You entered @
90
   The ASCII value of @ is 64
91
   The next two characters are: A and B
92
93 Please enter your character ---> (
```

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94	
95	You entered (
96	The ASCII value of (is 40
97	The next two characters are:) and *
98	
99	Please enter your character> #
100	
101	Number of uppercase> 1
102	Number of lowercase> 1
103	Number of numbers> 1
104	Number of other characters> 2
105	
106	///// Extremes \\\\\
107	
108	Please enter your character> !
109	
110	You entered !
111	The ASCII value of ! is 33
112	The next two characters are: " and #
113	
114	Please enter your character> ~
115	
116	You entered ~
117	The ASCII value of ~ is 126
118	The next two characters are: and ?
119	
120	Please enter your character> #
121	
122	Number of uppercase> 0
123	Number of lowercase> 0
124	Number of numbers> 0
125	Number of other characters> 2
126	*/

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