```
1 #include <stdio.h> //for printf()
 2 #include <conio.h> //for getch()
 4 // ASCII Values For 'A' to 'Z' => 65 to 90
 5 #define CHAR_ALPHABET_UPPER_CASE_BEGINNING 65
 6 #define CHAR_ALPHABET_UPPER_CASE_ENDING 90
 8 // ASCII Values For 'a' to 'z' => 97 to 122
 9 #define CHAR_ALPHABET_LOWER_CASE_BEGINNING 97
10 #define CHAR_ALPHABET_LOWER_CASE_ENDING 122
11
12 // ASCII Values For '0' to '9' => 48 to 57
13 #define CHAR_DIGIT_BEGINNING 48
14 #define CHAR DIGIT ENDING 57
15
16 int main(void)
17 {
        //variable declarations
18
19
        char ch;
20
        int ch_value;
21
22
        //code
        printf("\n\n");
23
24
        printf("Enter Character : ");
25
26
        ch = getch();
27
        printf("\n\n");
28
29
30
        if ((ch == 'A' || ch == 'a') || (ch == 'E' || ch == 'e') || (ch == 'I' || ch
         == 'i') || (ch == '0' || ch == 'o') || (ch == 'U' || ch == 'u'))
31
        {
            printf("Character \'%c\' Entered By You, Is A VOWEL CHARACTER From The
32
              English Alphabet !!!\n\n", ch);
33
        }
34
35
        else
36
        {
37
            ch_value = (int)ch;
39
            //If The Character Has ASCII Value Between 65 AND 90 OR Between 97 AND
              122, It Is Still A Letter Of The Alphabet, But It Is A 'CONSONANT', and →
              NOT a 'VOWEL'...
            if ((ch_value >= CHAR_ALPHABET_UPPER_CASE_BEGINNING && ch_value <=</pre>
40
                                                                                        P
              CHAR_ALPHABET_UPPER_CASE_ENDING) || (ch_value >=
                                                                                        P
              CHAR_ALPHABET_LOWER_CASE_BEGINNING && ch_value <=
                                                                                        P
              CHAR ALPHABET LOWER CASE ENDING))
41
                printf("Character \'%c\' Entered By You, Is A CONSONANT CHARACTER From →
42
                   The English Alphabet !!!\n\n", ch);
43
            }
44
```

```
...IfLadder\CharacterRecognition_IfElse_And_IfElseIfLadder.c
                                                                                        2
            else if (ch_value >= CHAR_DIGIT_BEGINNING && ch_value <=</pre>
             CHAR_DIGIT_ENDING)
46
            {
                printf("Character \'%c\' Entered By You, Is A DIGIT CHARACTER !!!\n
47
                  \n", ch);
48
            }
49
           else
50
51
            {
                printf("Character \'%c\' Entered By You, Is A SPECIAL CHARACTER !!!\n →
52
                  \n", ch);
53
            }
54
       }
55
56
       return(0);
57 }
```

58