

```
1  #include <stdio.h> //for printf()
2  #include <conio.h> //for getch()
3
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
7
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 {
18     //variable declarations
19     char ch;
20     int ch_value;
21
22     //code
23     printf("\n\n");
24
25     printf("Enter Character : ");
26     ch = getch();
27
28     printf("\n\n");
29
30     switch (ch)
31     {
32         // FALL THROUGH CONDITION...
33         case 'A':
34         case 'a':
35
36         case 'E':
37         case 'e':
38
39         case 'I':
40         case 'i':
41
42         case 'O':
43         case 'o':
44
45         case 'U':
46         case 'u':
47             printf("Character \'%c\' Entered By You, Is A VOWEL CHARACTER From The English Alphabet !!!\n\n", ch);
48             break;
49         default:
50             ch_value = (int)ch;
51
```

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...tion\01-UsingSwitchCase\CharacterRecognition_SwitchCase.c 2
52 //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'...
53 if ((ch_value >= CHAR_ALPHABET_UPPER_CASE_BEGINNING && ch_value <= CHAR_ALPHABET_UPPER_CASE_ENDING) || (ch_value >= CHAR_ALPHABET_LOWER_CASE_BEGINNING && ch_value <= CHAR_ALPHABET_LOWER_CASE_ENDING))
54 {
55     printf("Character \'%c\' Entered By You, Is A CONSONANT CHARACTER From The English Alphabet !!!\n\n", ch);
56 }
57
58 else if (ch_value >= CHAR_DIGIT_BEGINNING && ch_value <= CHAR_DIGIT_ENDING)
59 {
60     printf("Character \'%c\' Entered By You, Is A DIGIT CHARACTER !!!\n\n", ch);
61 }
62
63 else
64 {
65     printf("Character \'%c\' Entered By You, Is A SPECIAL CHARACTER !!!\n\n", ch);
66 }
67 break;
68 }
69
70 printf("Switch Case Block Complete !!!\n");
71
72 return(0);
73 }
74

```