

```
#include <stdio.h>
#include <math.h>
#include <ctype.h>

int main(){
    char c;
    int lowercase, uppercase;
    printf("Enter a alphebet: \n");
    scanf("%c", &c);

    if (!isalpha(c)){
        printf("Error! Please enter a alphabetic character!\n");
    }
    else if ( (lowercase = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u')) ||
        (uppercase = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U')) ) {
        printf("%c is a vowel.\n", c);
        printf("The ASCII number of %c is %d", c, c);
    }
    else{
        printf("%c is a consonant.\n", c);
        printf("The ASCII number of %c is %d", c, c);
    }
}
```