

3) Write a C++ program to find the number of vowels present in the given character array using pointer arithmetic.

```
#include <iostream>
#include <string.h>
using namespace std;
int main() {
    char str[100];
    cout << "Enter the string : ";
    gets(str);
    char *ptr = str; //is used to create a pointer
    int vowelCount = 0;
    int len = strlen(str);
    while(len--) {
        if(*ptr == 'A' || *ptr == 'E' || *ptr == 'I'
           || *ptr == 'O' || *ptr == 'U' || *ptr == 'a' || *ptr == 'e'
           || *ptr == 'i' || *ptr == 'o' || *ptr == 'u') {
            vowelCount++;
        }
        ptr++;
    }
    cout << "Total count of vowels : " << vowelCount << endl;
    return 0;
}
```