

B.Tech Computer Engineering

Vth Semester

Lab 1

Sub: OOPS Lab

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Q1.) Write a programme to count the number of vowels in the given char. Array using pointer arithmetic?

```
#include <bits/stdc++.h>

int main()
{

    using namespace std;

    ios_base::sync_with_stdio(false);
    cin.tie(NULL);

    cout << "Syed Mohammad Raza (18BCS056) "
         << "\n";

    cout << "Program For Counting Vowels In The Given String Using
Pointer Arithmetic"
         << "\n";
    cout << "Enter Char. Array : ";
    char Char[1000];
    cin >> Char;
    char *str = Char;
    int counter = 0;
    while ((*str) != '\0')
    {
        char var = (*str);
        if (var == 'a' or var == 'e' or var == 'i' or var == 'o' or var
== 'u' or var == 'A' or var == 'E' or var == 'I' or var == 'O' or var
== 'U')
        {
            counter++;
        }
        str++;
    }

    cout << "Vowels In The Given String " << counter << "\n";
```

```
    return 0;
}
```

Q2.) Write a programme to reverse a number in reverse order using function with & without return type .

```
#include <bits/stdc++.h>

using namespace std;

int reverseNumberWithReturn(int n)
{
    int rev = 0;
    int rem;
    while (n != 0)
    {
        rem = n % 10;
        rev = (rev * 10) + rem;
        n /= 10;
    }
    return rev;
}

void reverseNumberWithoutReturn(int n)
{
    n = reverseNumberWithReturn(n);
    cout << "Reversed number is " << n << '\n';
}

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(NULL);

    cout << "Enter the number : ";
    int no;
```

```
cin >> no;
cout << "Reversed number is " << reverseNumberWithReturn(no) <<
endl;
reverseNumberWithoutReturn(no);

return 0;
}
```