C++

Assignment – 4 Name – Kishan R Vaghamashi Student ID – 202312014

```
#include <bits/stdc++.h>
using namespace std;
int main()
    string s;
    cout << "Enter the string:- ";</pre>
    getline(cin, s);
    int count = 0;
    char *sptr = &s[0];
    while ((*sptr) != '\0')
        if (*sptr == 'a' || *sptr == 'e' || *sptr == 'i' || *sptr == 'o' ||
*sptr == 'u' ||
            *sptr == 'A' || *sptr == 'E' || *sptr == 'I' || *sptr == '0' ||
*sptr == 'U')
            count++;
        sptr++;
    cout << "Vovel:- " << count;</pre>
    return 0;
```

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    string s;
    cout << "Enter string:- " << endl;</pre>
    getline(cin, s);
    int count = 0;
    char *sptr = &s[0];
    while ((*sptr) != '\0')
        if (*sptr >= 'A' && *sptr <= 'Z')
            count++;
        sptr++;
    }
    cout << "Capital letters:- " << count << endl;</pre>
    return 0;
```

```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main()
    string s;
    cout << "Enter string:- ";</pre>
    getline(cin, s);
    char *ptr = &s[0];
    char *ptr1 = ptr;
    while (*ptr != '\0')
        if (*ptr >= 'a' && *ptr <= 'z')
            *ptr = *ptr - 32;
        ptr++;
    }
    cout << ptr1 << "\n";
    return 0;
```

4)

```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main()
    string s;
    cout << "Enter string:- ";</pre>
    getline(cin, s);
    int ans = 0;
    char *ptr = &s[0];
    if (*ptr != ' ')
        ans++;
    while (*ptr != '\0')
        if (*ptr == ' ' && *(ptr + 1) != ' ' && *(ptr + 1) != '\0')
            ans++;
        ptr++;
    }
    cout << ans;</pre>
    return 0;
```

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```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main()
    string s;
    cout << "Enter the string:- ";</pre>
    getline(cin, s);
    const int length = s.length();
    char *start, *end, temp_Pointer;
    start = &s[0];
    end = \&s[length - 1];
    for (int i = 0; i < (length - 1) / 2; i++)
        swap(*start, *end);
        start++;
        end--;
    cout << s;
    return 0;
```

```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main()
    string s;
    getline(cin, s);
    int l = s.size();
    char *start = &s[0];
    char *end = &s[l - 1];
    while (start <= end)</pre>
    {
        swap(*start, *end);
        start++;
        end--;
    }
    start = &s[0];
    char *first = NULL;
    char *last = NULL;
    while (*start != '\0')
    {
        if (*start != ' ')
        {
            if (first == NULL)
                first = start;
            last = start;
        }
        else
        {
            if (first != NULL && last != NULL)
            {
                reverse(first, last + 1);
                first = NULL;
                last = NULL;
            }
        start++;
```

```
cout << s;
return 0;
}</pre>
```

7)

```
int j = i + 1;
    while (j < n && str[j] != ' ')</pre>
        j++;
    string sub = str.substr(i, j - i);
    if (sub.size() == 1)
        one++;
    else if (sub.size() == 2)
        two++;
    else if (sub.size() == 3)
        three++;
    if (result.size() == 0)
        result = sub;
        result = sub + " " + result;
    i = j + 1;
cout << "one letter word :- " << one << endl;</pre>
cout << "two letter word :- " << two << endl;</pre>
cout << "three letter word :- " << three << endl;</pre>
```

```
#include <bits/stdc++.h>
using namespace std;
string count(char *s1, char *s2)
    int l1 = strlen(s1);
    string s;
    for (int i = 0; i < l1; i++)
        s2[i] = s1[l1 - i - 1];
        s2[l1] = '\0';
    for (int i = 0; i < l1; i++)
        if (s1[i] == s2[i])
            s = "Palindrome";
        else
           s = "Not Palindrome";
    return s;
int main()
    char s1[100];
    cout << "Enter a string : ";</pre>
    cin.get(s1, 100);
    char s2[100];
    cout << count(s1, s2);</pre>
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9)

```
#include <iostream>
#include <cstring>
using namespace std;
int main()
    char *s1 = new char [50];
    cout << "Enter first string: ";</pre>
    cin.getline(s1, 50);
    char *s2 = new char[50];
    cout << "Enter second string: ";</pre>
    cin.getline(s2, 50);
    int n1 = strlen(s1);
    int n2 = strlen(s2);
    int cnt = 0;
    bool flag = false;
    for (int i = 0; i < n1; i++)
        int ind = i;
        int j = 0;
        while ((s1[ind++] == s2[j++]) \&\& j < n2)
```

```
#include <iostream>
#include <cstring>
using namespace std;
int main()
    char input[50];
    cout << "Enter a string: ";</pre>
    cin.get(input, 50);
    char *p = input;
    int size;
    cout << "Enter length of substring : ";</pre>
    cin >> size;
    int len = (strlen(input) / size);
    char ca[50][50]{};
    int k{0};
    for (size_t i{}; i < len; i++)</pre>
        for (size_t j{}; j < size; j++)</pre>
             if (*p == ' ')
                 p++;
             if (*p != '\0')
                 ca[i][j] = *p;
                 p++;
             }
             else
             {
                 ca[i][j] = ' ';
             }
        }
    for (size_t i{}; i < len; i++)</pre>
        for (size_t j{}; j < size; j++)</pre>
             cout << ca[i][j];</pre>
```

```
cout << endl;
}
</pre>
```

11)

```
#include <cstring>
using namespace std;
int main()
    char input1[50], input2[50];
    cout << "enter the first string: ";</pre>
    cin.getline(input1, 50);
    cout << endl;</pre>
    cout << "enter the sub string to be found: ";</pre>
    cin.getline(input2, 50);
    cout << endl;</pre>
    int len1 = strlen(input1);
    int len2 = strlen(input2);
    char *x = input1;
    char *y = input2;
    int cnt1 = 0, cnt2 = 0;
    for (int i = 0; i < len1; i++)
        if (input1[i] != ' ')
             input1[cnt1] = input1[i];
             cnt1++;
    input1[cnt1] = '\0';
    for (int i = 0; i < len2; i++)
    {
        if (input2[i] != ' ')
        {
             input2[cnt2] = input2[i];
            cnt2++;
        }
    input2[cnt2] = '\0';
    len1 = cnt1;
    len2 = cnt2;
    int j = 0;
    for (int i = 0; i < len1; i++)</pre>
```

```
if (*x == *y)
{
         y++;
         j++;
    }
    x++;
}

if (j == len2)
{
    cout << "Substring Is Present";
}
else
{
    cout << "Substring Is Not Present";
}
return 0;
}</pre>
```

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```