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Section: 41-J2

Assessment – 04

Date: 20.09.2024

Question - 01: *Count the number of vowels in the string.*

Code:

```c
#include <stdio.h>
int main()
{
    char str[100];
    int vowels = 0;

    printf("Enter a string: ");
    gets(str);

    for (int i = 0; str[i] != '\0'; i++)
    {
        if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u' ||
            str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == 'O' || str[i] == 'U')
        {
            vowels++;
        }
    }

    printf("Number of vowels: %d", vowels);

    return 0;
}

// Author: Md. Maruf Rayhan (623) :D
```
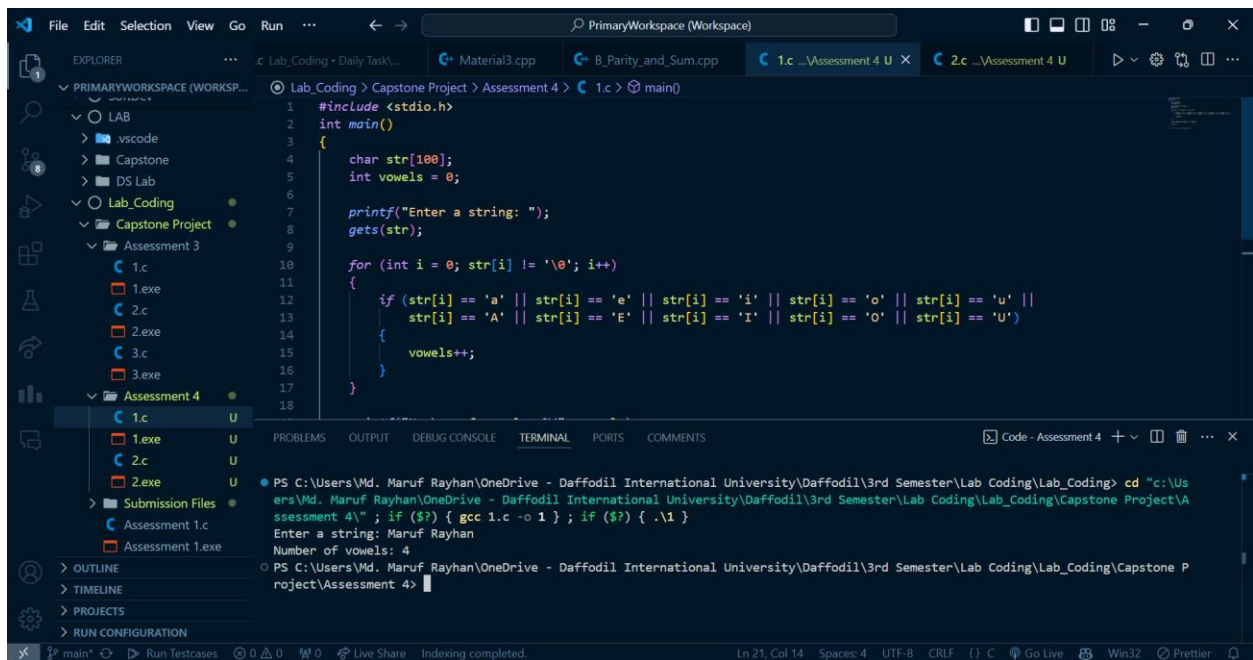
Attachments:

Question - 02: *Reverse the string without using any built-in functions.*

Code:

```c
#include <stdio.h>

int main()

{

    char str[100];

    int i, j, temp;

    printf("Enter a string: ");

    gets(str);


    for (i = 0, j = 0; str[j] != '\0'; j++)

        ;

    j--;
```

```c
    while (i < j)
    {
        temp = str[i];
        str[i] = str[j];
        str[j] = temp;
        i++;
        j--;
    }


    printf("Reverse string: %s", str);


    return 0;
}


// Author: Md. Maruf Rayhan(623) :D
```

Attachments: