**28 April Lab questions**

#1. Replacing occurrences of a specific letter with another new letter

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    int i\_285,flag\_285=0;

    char A\_285[50],och\_285,nch\_285;

    printf("Please provide a short sentence\n");

    gets(A\_285);

    printf("give old character\n");

    scanf("%c", &och\_285);

    printf("give new character\n");

    scanf(" %c", &nch\_285);

    printf("Your sentence before replacing is=\n");

    puts(A\_285);

    for(i\_285=0; A\_285[i\_285]!='\0' ;i\_285++)

    {

        if(A\_285[i\_285]==och\_285)

        {

            A\_285[i\_285]=nch\_285;

            flag\_285=1;

        }

    }

    if(flag\_285==1)

    {

        printf("Your sentence after replacing is=\n");

        puts(A\_285);

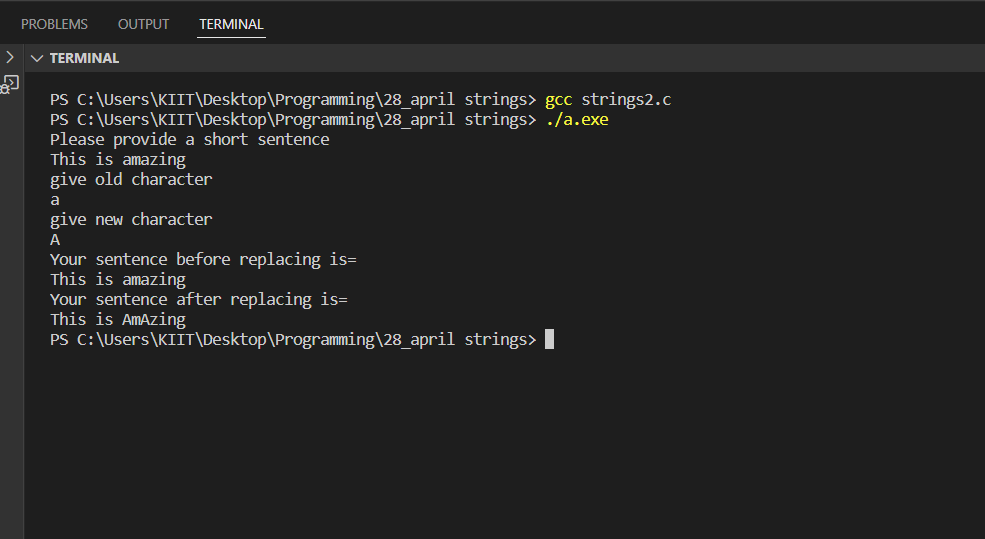
    }

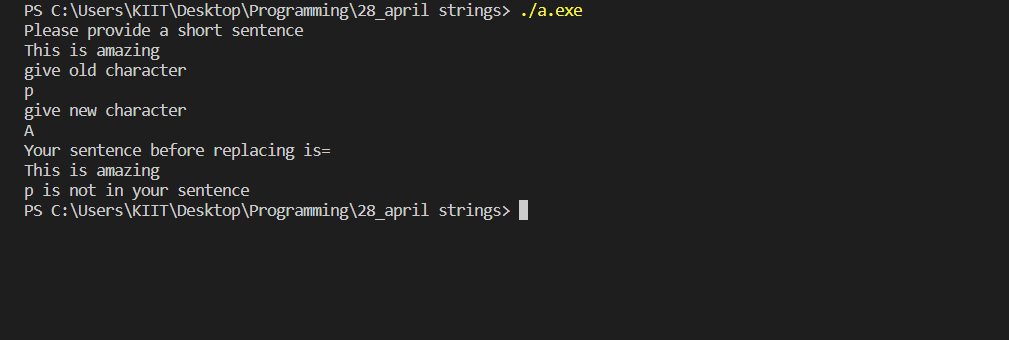
    else

        printf("%c is not in your sentence\n",och\_285);

}

Output:





#2. 2D array of strings

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    char A\_285[3][10];

    int i\_285,j\_285;

    printf("Please give 3 words\n");

    for(i\_285=0;i\_285<3;i\_285++)

    {

        gets(A\_285[i\_285]);

    }

    printf("Your words are as follows\n");

    for(i\_285=0;i\_285<3;i\_285++)

    {

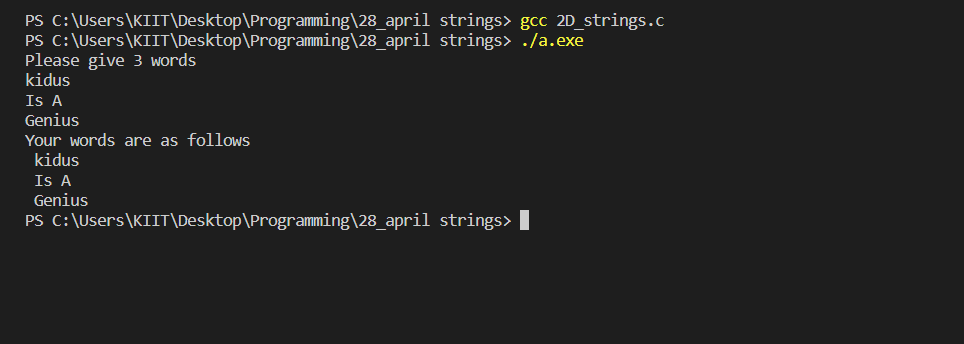
            printf(" %s ",A\_285[i\_285]);

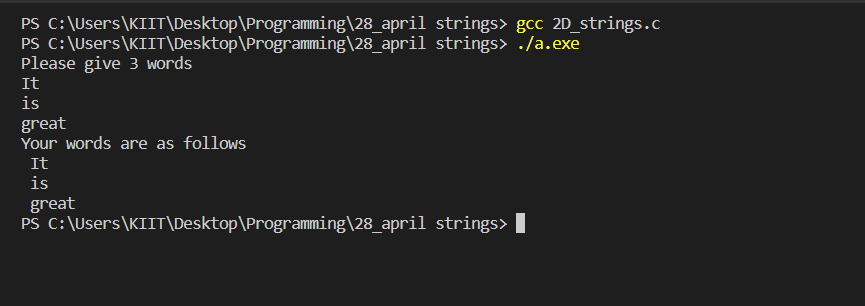
            printf("\n");

    }

}

Output:





#3. Counting the vowels of words

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    char A\_285[3][10];

    int i,j,count\_285;

    printf("Please give 3 words\n");

    for(i=0;i<3;i++)

    {

        gets(A\_285[i]);

    }

    for(i=0;i<3;i++)

    {

        for(j=0;j<9;j++)

        {

            if(A\_285[i][j]== 'a' || A\_285[i][j]=='e' || A\_285[i][j]== 'i' || A\_285[i][j]== 'o' || A\_285[i][j]== 'u' || A\_285[i][j]== 'A' || A\_285[i][j]=='E' || A\_285[i][j]== 'I' || A\_285[i][j]== 'O' || A\_285[i][j]== 'U' )

            {

                count\_285++;

            }

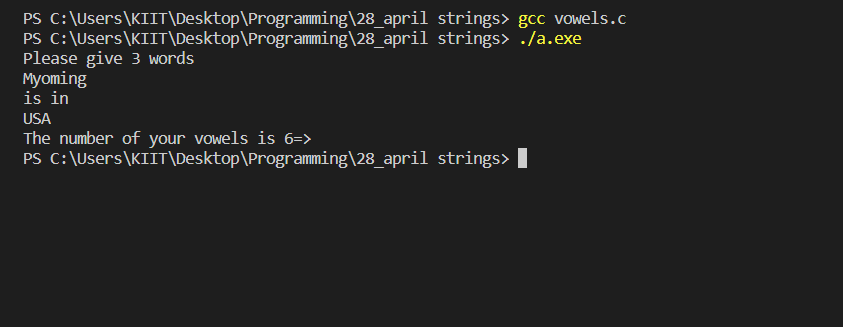
        }

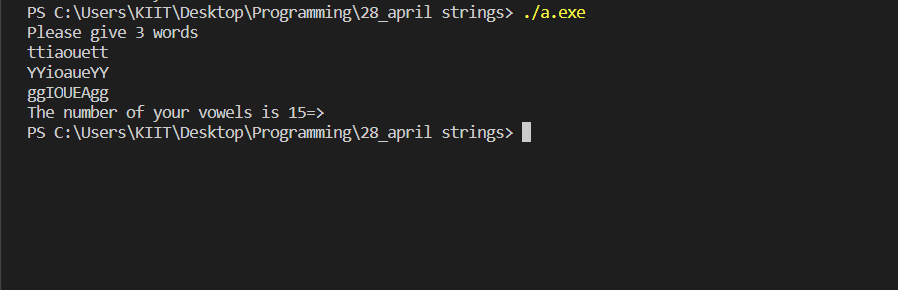
    }

    printf("The number of your vowels is %d=>",count\_285);

}

Output:





#4. Checking if a word is palindrome or not

Code:

#include<stdio.h>

#include<string.h>

int main()

{

    int i\_285,j\_285,length\_285,temp\_285,count\_285,huh;

    char A\_285[30],P\_285[30];

    printf("Give a sentence\n");

    gets(A\_285);

    length\_285=strlen(A\_285);

    temp\_285 = 0;

    for(i\_285=length\_285-1;i\_285>=0;i\_285--)

    {

        P\_285[temp\_285]=A\_285[i\_285];

        temp\_285++;

    }

    for(i\_285=0;i\_285<length\_285-1;i\_285++)

    {

        if(P\_285[i\_285]==A\_285[i\_285])

        {

            count\_285++;

        }

        else

            break;

    }

    if(count\_285==length\_285-1)

        printf("Yes it is palindrome");

    else

        printf("Not a palindrome\n");

    return 0;

}

Output:

