**28 April Home questions**

#1.WAP to reads a sentence and prints frequency of each of the vowels and

total count of Consonants.

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    int i,j,n,counta\_285=0,counte\_285=0,counti\_285=0,counto\_285=0,countu\_285=0,space\_285,sum\_285,temp\_285;

    char A\_285[100];

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

    gets(A\_285);

    n=strlen(A\_285);

    for(i=0;i<n;i++)

    {

        if(A\_285[i]=='A' || A\_285[i]=='a')

        {

            counta\_285++;

        }

        else if(A\_285[i]=='E' || A\_285[i]=='e')

        {

            counte\_285++;

        }

        else if(A\_285[i]=='i' || A\_285[i]=='I')

        {

            counti\_285++;

        }

        else if(A\_285[i]=='O' || A\_285[i]=='o')

        {

            counto\_285++;

        }

        else if(A\_285[i]=='U' || A\_285[i]=='u')

        {

            countu\_285++;

        }

        else if(A\_285[i]==' ')

        {

            space\_285++;

        }

    }

    printf("frequency of 'A' or 'a' is %d\n",counta\_285);

    printf("frequency of 'E' or 'e' is %d\n",counte\_285);

    printf("frequency of 'I' or 'i' is %d\n",counti\_285);

    printf("frequency of 'O' or 'o' is %d\n",counto\_285);

    printf("frequency of 'U' or 'u' is %d\n",countu\_285);

    sum\_285= counta\_285+counte\_285+counti\_285+counto\_285+countu\_285+space\_285;

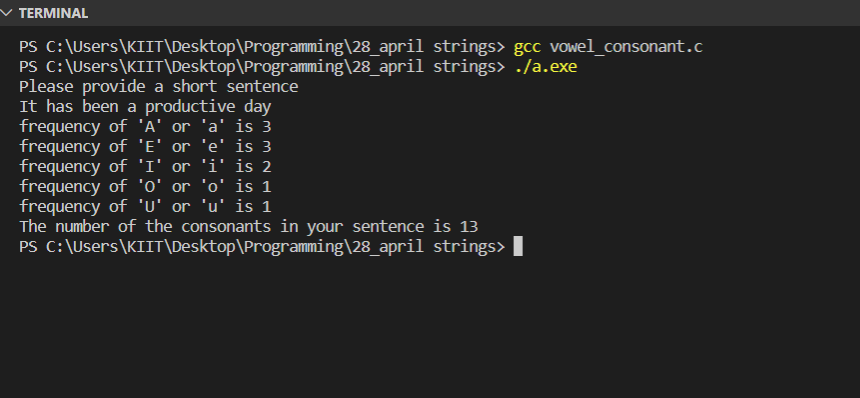
    temp\_285=n-sum\_285;

    printf("The number of the consonants in your sentence is %d ",temp\_285);

    return 0;

}

Output:



#2.Write a program to concatenate two strings without using any library

function.

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    int i\_285,j\_285,n\_285,temp\_285;

    char A\_285[50], B\_285[20];

    printf("Please give your first sentence\n");

    gets(A\_285);

    printf("Please give your second sentence\n");

    gets(B\_285);

    n\_285= strlen(A\_285);

    temp\_285=0;

    for(i\_285=n\_285;i\_285<49;i\_285++)

    {

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

        temp\_285++;

    }

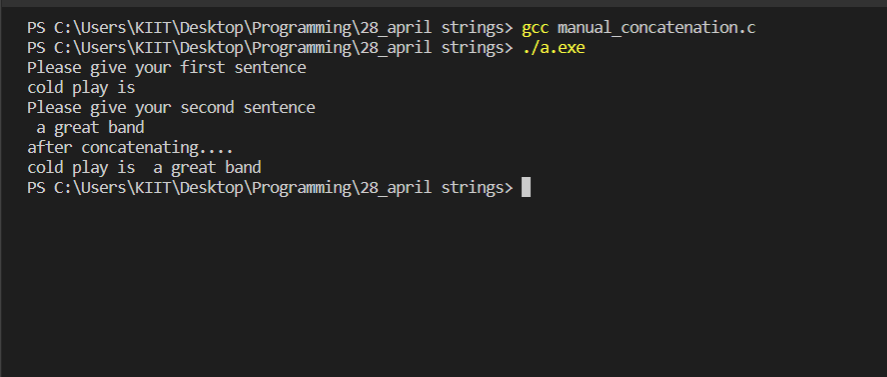
    printf("after concatenating....\n");

    puts(A\_285);

    return 0;

}

Output:



#3.WAP to take a sentence as input and reverse every word of the sentence.

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    int i\_285,j\_285,n\_285;

    char A\_285[3][30];

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

    for(i\_285=0;i\_285<3;i\_285++)

    {

        scanf("%s",A\_285[i\_285]);

    }

    for(i\_285=0;i\_285<3;i\_285++)

    {

        n\_285=strlen(A\_285[i\_285]);

        for(j\_285=(n\_285-1);j\_285>=0;j\_285--)

        {

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

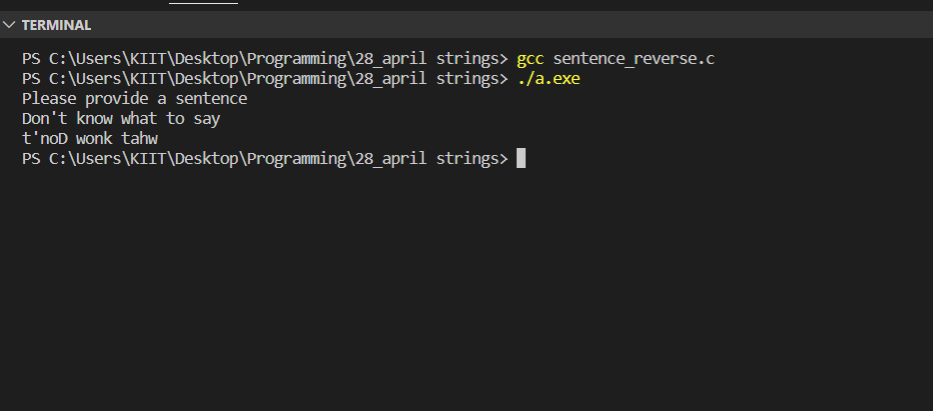
        }

        printf(" ");

    }

}

Output:



#4.WAP to replace all occurrences of a substring in a given string with a new

one. [substring= a smaller portion of the string]

Code:

#include <stdio.h>

#include <string.h>

int main()

{

    int i,j;

    char A\_285[5][30], ostr\_285[10],nstr\_285[10];

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

    for(i=0;i<5;i++)

    {

        scanf("%s",A\_285[i]);

    }

    printf("give old word\n");

    scanf(" %s",&ostr\_285);

    printf("give new word\n");

    scanf(" %s",&nstr\_285);

    for(i=0;i<5;i++)

    {

        if(strcmp(A\_285[i],ostr\_285)==0)

        {

            strcpy(A\_285[i],nstr\_285);

            break;

        }

    }

    printf("Your new sentence is as follows=>\n");

    for(i=0;i<5;i++)

    {

        printf("%s",A\_285[i]);

        printf(" ");

    }

    return 0;

}

Output:

