KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

28 April Home questions

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

Code:

```c
#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:

KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

```
TERMINAL
PS C:\Users\KIIT\Desktop\Programming\28_april strings> gcc vowel_consonant.c
PS C:\Users\KIIT\Desktop\Programming\28_april strings> ./a.exe
Please provide a short sentence
It has been a productive day
frequency of 'A' or 'a' is 3
frequency of 'E' or 'e' is 3
frequency of 'I' or 'i' is 2
frequency of 'O' or 'o' is 1
frequency of 'U' or 'u' is 1
The number of the consonants in your sentence is 13
PS C:\Users\KIIT\Desktop\Programming\28_april strings>
```

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

Code:

```c
#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:

KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

```
PS C:\Users\KIIT\Desktop\Programming\28_april strings> gcc manual_concatenation.c
PS C:\Users\KIIT\Desktop\Programming\28_april strings> ./a.exe
Please give your first sentence
cold play is
Please give your second sentence
 a great band
after concatenating....
cold play is  a great band
PS C:\Users\KIIT\Desktop\Programming\28_april strings>
```

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

Code:

```c
#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:

KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

```
TERMINAL
PS C:\Users\KIIT\Desktop\Programming\28_april strings> gcc sentence_reverse.c
PS C:\Users\KIIT\Desktop\Programming\28_april strings> ./a.exe
Please provide a sentence
Don't know what to say
t'noD wonk tahw
PS C:\Users\KIIT\Desktop\Programming\28_april strings>
```

#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:

```c
#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:

KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

```
PS C:\Users\KIIT\Desktop\Programming\28_april strings> gcc substring2.c
PS C:\Users\KIIT\Desktop\Programming\28_april strings> ./a.exe
Please provide a sentence
What is I say no
give old word
What
give new word
Then
Your new sentence is as follows=>
Then is I say no
PS C:\Users\KIIT\Desktop\Programming\28_april strings>
```