Assignment 11

//Q1 11assignment

#include<stdio.h>

#include<string.h>

void main(){

char str[50];

printf("Enter the string:");

scanf("%s",&str);

printf("\nstring :%s",str);

//before scaning char clean buffer

fflush(stdin);

char ch;

printf("\nEnter the character wants to search:");

scanf("%c",&ch);

int len=strlen(str);

for(int i=0;i<len;i++){

if(str[i]==ch){

printf("\nch :%c is found at index :%d\n",ch,i);

}

}//end of for loop

}

#include<stdio.h>

#include<string.h>

void main(){

char str[40];

printf("Enter the string:");

scanf("%s",str);

for(int i=0;i<strlen(str);i++){

if(str[i]=='a'){

str[i]='$';

}

}

printf("string after replace a with 'a with '$':%s ",str);

}

//Q3

#include<stdio.h>

#include<string.h>

void main(){

char str1[]="prachiti";

int len=strlen(str1);

//printf("len% d",len);

char str2[len];

printf("\nOld string:%s\n",str1);

int i;

for(i=0;str1[i]!='\0';i++){

if(i==0){

str2[i]=str1[len-1];

0 7

}else{

if(i==(len-1)){

str2[i]=str1[0];

7 0

}

else{

str2[i]=str1[i];

}

}

}//end for loop

str2[i]='\0'; //make it string without this it is char arry

printf("New string:%s\n",str2);

}

//Q3WAP to Remove the nth Index Character from a Non-Empty String

#include<stdio.h>

#include<string.h>

void main(){

char str[]="prachiti";

int n;

printf("Enter the n :");

scanf("%d",&n);

for(int i=0;i<strlen(str);i++){

if(i>=n){

str[i]=str[i+1];

}

}

printf("after remove %d index :%s",n,str);

}

//#qWAP to Remove the nth Index Character from a Non-Empty String

#include<stdio.h>

#include<string.h>

void main(){

char str[]="prachiti";

char ch;

printf("Enter the character wants to remove:");

scanf("%c",&ch);

for(int i=0;i<strlen(str);i++){

if(str[i]==ch){

//if ch got ==>start shifting

int j=i;

for(;j<strlen(str);j++){

str[j]=str[j+1];

}

}

}//end for

printf("After removing the character:%s",str);

}

//Q4

#include<stdio.h>

#include<string.h>

void main(){

char str1[]="prachiti";

int len=strlen(str1);

//printf("len% d",len);

char str2[len];

printf("\nOld string:%s\n",str1);

int i;

for(i=0;str1[i]!='\0';i++){

if(i==0){

str2[i]=str1[len-1];

0 7

}else{

if(i==(len-1)){

str2[i]=str1[0];

7 0

}

else{

str2[i]=str1[i];

}

}

}//end for loop

str2[i]='\0'; //make it string without this it is char arry

printf("New string:%s\n",str2);

}

//5. WAP to Count the Number of Vowels in a String

#include<stdio.h>

#include<string.h>

void main(){

char str[]="prachitI";

int vowels=0;

int cons=0;

for(int i=0;i<strlen(str);i++){

if(str[i]=='a'||str[i]=='A'||str[i]=='e'||str[i]=='E'

|| str[i]=='i'||str[i]=='I'||str[i]=='o'||str[i]=='O'||str[i]=='u'||str[i]=='U')

{

vowels++;

}

else{

if(str[i]>='A'&&str[i]<='Z' || str[i]>='a'&& str[i]<='z'){

cons++;

}

}

}//end of for

printf("Vowels:%d\n\n",vowels);

printf("cons:%d",cons);

}

//Q7. WAP to Remove the Characters of Odd Index Values in a String

#include<stdio.h>

#include<string.h>

void main(){

char str[]="prachiti";

//odd index

for(int i=0;i<strlen(str);i++){

if(i%2!=0){

str[i]=str[i+1];

}

}

printf("\n\nodd index remove:%s",str);

}

//8. WAP to Calculate the Number of Words Present in a String

#include<stdio.h>

#include<string.h>

void main(){

char str[]="This is string count";

//printf("str:%s",str);

int count=1;

for(int i=0;i<strlen(str);i++){

//to handle the initail spce

while(1) {

if(str[i]==' '){

i++;

}else{

break;

}

}//end of while

//if there are spaces then now our i is on the index of 1st word

if(str[i]==' '){

//check for the index after space

if(str[i+1]>='A' && str[i+1]<='Z' || str[i+1]>='a' && str[i+1]<='z'){

count++;

}

}

}//end for

printf("count :%d",count);

}

/\*

int count=1;

int i=0;

while(1){

if(str[i]==' '){

i++

}else{

break;

}

}

\*/

//my logic

/\*

int count=0;

int i;

for(i=0;i<=strlen(str);i++){

if(str[i]==' '||str[i]=='\0'){

printf("str:%c\n",str[i]);

count++;

}

}

printf("number of words are :%d",count);

\*/

//WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions

#include<stdio.h>

#include<string.h>

void main(){

char str1[10];

char str2[10];

printf("Enter str1:");

scanf("%s",str1);

printf("Enter str2:");

scanf("%s",str2);

int count\_1=0,count\_2=0;

for(int i=0;str1[i]!='\0';i++){

count\_1++;

}

for(int j=0;str2[j]!='\0';j++){

count\_2++;

}

if(count\_1>count\_2){

printf("larger string:%s",str1);

}

else{

if(count\_2>count\_1)

printf("larger string:%s",str2);

else

{

if(count\_1==count\_2){

printf("same length!!");

}

}

}

}

//WAP to Take in Two Strings and Display the Larger String without Using Built-in Functions

#include<stdio.h>

#include<string.h>

void main(){

char str1[10];

char str2[10];

printf("Enter str1:");

scanf("%s",str1);

printf("Enter str2:");

scanf("%s",str2);

int count\_1=0,count\_2=0;

for(int i=0;str1[i]!='\0';i++){

count\_1++;

}

for(int j=0;str2[j]!='\0';j++){

count\_2++;

}

if(count\_1>count\_2){

printf("larger string:%s",str1);

}

else{

if(count\_2>count\_1)

printf("larger string:%s",str2);

else

{

if(count\_1==count\_2){

printf("same length!!");

}

}

}

}